Sto	te s exhibits 52	
DATE:	9/26/11	
	08/10/	'90-

## APPLICATION NO. 53991

PROTESTED BY	DATE
MECHAM, WESS D.	08/10/90
ROWE, GEORGE T.	08/08/90
MAXWELL, ROSEMARY	07/30/90
U.S. DEPARTMENT OF THE INTERIOR	07/20/90
BARTON, HELEN	07/16/90
LAWRENCE, MARIAN	07/16/90
WALLIS, STANLEY L.	07/16/90
WADSWORTH, JOHN M.	07/13/90
COUNTY OF INYO, CALIFORNIA	07/12/90
PAHRANAGAT VALLEY JOINT VENTURE SERVICES BRD	07/12/90
ROEKEL, GLENN VAN	07/12/90
THE TOWN OF ALAMO and SEWER BOARD	07/12/90
LINCOLN COUNTY, BOARD OF COMMISSIONERS	07/11/90
THE CITY OF CALIENTE	07/11/90
FOX, JOSEPH C., JR.	07/09/90
HOLT, WESLEY A.	07/09/90
THE COUNTY OF WHITE PINE and THE CITY OF ELY	07/09/90
THE MOAPA BAND OF PAIUTE INDIANS	07/09/90
U.S. FISH & WILDLIFE SERVICE	07/09/90
COUNTY OF NYE	07/06/90
U.S. DEPT. OF INT., NATIONAL PARK SERVICE	07/06/90
	07/05/90
WHEELER, FRANK R.	07/05/90
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ed or typed name of protestant
et, Portland, OR 97232-4181
et No. or P.O. Box. City. State and Zin Code
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October 17 , 19 89
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on the following grounds, to wit:
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angineer deems just and proper.
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arvin L. Plenert, Regional Director
Fish and Wildlife Service 1002 NE Holladay St.
Street No. or P.O. Box No. ortland, OR 97232-4181
City, State and Zip Code No.
June 1990
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Oregon
M. 1 to one b
Commission Expires 11/17/92

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0-2035

The U.S. Fish and Wildlife Service (Service) protests water right applications 53947 through 54036, 54038 through 54066, 54068 through 54092, 54105, and 54106, of which this protest is a part, which were filed by the Las Vegas Valley Water District (LVVWD). Granting the above applications would not be water rights.

The currently available information indicates that the impacts, both short and long term, which would result from withdrawal (extraction) of underground water as proposed by LVVWD, would adversely affect the water rights held by the Service and the water available to wildlife and plants in general.

The "underground source" of the water proposed to be appropriated by LVVWD will intercept the source of the water that now maintains the numerous springs, seeps, marshes, streams, and riparian and mesquite habitats that support the wildlife and plant resources including endangered and threatened species in the state of Nevada. These water resources are dependent on the ground water systems from which applicant proposes to tap.

The Service's mission is to conserve, protect, and enhance fish, wildlife, and their habitats for the continuing benefit of the American people. In southern Nevada, the Service manages four National Wildlife Refuges (NWR):

- Ash Meadows NWR. This refuge was established in June 1984 and comprises approximately 23,500 acres of spring-fed wetlands and alkaline desert uplands that provide habitat for numerous plants and animals found nowhere else in the world. Five species at the refuge are listed under the Endangered Species Act, and seven species are threatened. Twenty other species are candidates for listing.
- Desert National Wildlife Range. This refuge was established in 1936 and encompasses over 2,200 square miles. The most important objective is perpetuating the desert bighorn sheep and its habitat. Dependable, year-round water sources located throughout bighorn habitat enable the sheep to use all available habitat which reduces competition for food, the home of the endangered Pahrump poolfish.
- Moapa NWR. This refuge was established in 1979 to secure habitat for the Moapa dace, an endangered minnow endemic to the headwaters of the Muddy River. Historically, the dace was common throughout the headwaters of the Muddy River but in the last decade populations have declined sharply due to habitat destruction and alterations and competition with introduced non-native species.

Pahranagat NWR. This refuge was established in 1964 to provide a stopping point for waterfowl and other migratory birds as they migrate south in the fall and back north in the early spring. These waterfowl are attracted by the refuge's 5,380 acres of marshes, open water, native grass meadows, and cultivated croplands. The refuge is the home of the endangered bald eagle and five candidate species.

These four southern Nevada refuges support migratory birds, endangered and threatened species, and other plant and wildlife species. Loss of sufficient water supply to the refuges would eliminate or degrade critical wildlife habitat and could eliminate some or all of the migratory birds, endangered and threatened species, and other wildlife the refuges have been established to protect. This would defeat the very purposes of the refuges and interfere with the Service's mandated responsibilities under the Migratory Bird Treaty Act, 16 U.S.C § 703 et seq., (MBTA) and the Endangered Species Act (ESA) of 1973, 16 U.S.C. 1531 et seq., among other federal laws. Reducing the refuges' water supply through approval of the applications could also constitute violations of the ESA and MBTA.

In addition to the endangered and threatened species found on the refuges, endangered and threatened species are found at numerous other sites in southern Nevada. Significantly reducing water supplies at these locations would also adversely affect these species. The preamble to the Endangered Species Act states that endangered and threatened species of fish, wildlife and plants . . . "are of aesthetic, ecological, educational, historical, recreational and scientific value to the Nation and its people." Congress, through enactment of the Endangered Species Act, has clearly expressed a national public interest in preserving endangered and threatened plant and animal species.

The Service also has water rights for surface and ground water at each of the four southern Nevada National Wildlife Refuges. Approval of the applications would significantly reduce the water available at the refuges and injure the Service's water rights.

The Fish and Wildlife Service strongly urges the State Engineer to undertake a comprehensive study of the environmental impacts to southern Nevada that the withdrawing of approximately 860,000 acre-feet of water, the amount applied for by the Las Vegas Valley Water District, would have on the hydrologically connected basins in this area of the state prior to approving any of the applications.

In the Matter of Application Number
Filed by Las Vegas Valley Water District
on October 17, 1989, to Appropriate the
WATERS OF Underground
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whose post office address is 10, 450x 2/6 = /2/5-15 A/V CO > > 0
whose occupation is FIELD SERVICE REPRESENTATIVE, and protests the granting
filed on October 17
by Las Vegas Valley Water District
Printed or typed name of applicant to appropriate the waters of
Underground or name of stream, lake, spring or other source situated in Lincoln
County, State of Nevada, for the following reasons and on the following grounds, to wit:
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AND DEDUCATED APPROPRIATIONS AND DEDUCATED WEEKS
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FROM EXISTING WELLS AND WILL ADVENCELY AFFECT EXISTING
RIGHTS ADVERSE TO THE PUBLIC INTEREST
The state of the s
THEREFORE the protestant requests that the application be Denied
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and that an order be entered for such relief as the State Engineer deems just and proper.
Signed Park CZ
Country of Edward or protestant
Printed or typed name, if agent
Address PO. Box 276
CALIENTE NV 89608
City, State and Zip Code No.
•
Subscribed and sworn to before me this 2nd day of July 1990
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Hona Wrene Notary Public
Rolary as costs of Novada State of
Comm. Exp. 9/13/A County of Discuss
17/2/72

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ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

0-3015 ---

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Subscribed and sworn to before me this 574 day of July 19 90	
day of July , 19 90 .	
MARIE E. KALLERES & Marie & Male	
Notary Public - State of Nevada White Pine County, Neweds State of Nevada	
My commission equires Nov. 21, 1988  County of White Pine	

#### REASONS AND GROUNDS FOR PROTEST

The City of Ely and The Board of County Commissioners, White Pine County, State of Nevada, do hereby protest the above referenced application upon the following grounds:

- 1. Upon information and belief Protestant asserts that there is not sufficient unappropriated groundwater in the subject Basin to provide the water sought in the Instant Application and all other pending applications involving the utilization of surface and ground water from that Basin.
- 2. Upon information and belief Protestant asserts that the appropriation of this water when added to the already approved appropriations to dedicated users in the subject Basin will exceed the annual recharge and safe yield of the basin. Appropriation and use of this magnitude will lower the water table and degrade the quality of water from existing wells, cause negative hydraulic gradient influences, further cause other negative impacts and will adversely affect existing rights adverse to the public interest.
- 3. That the groundwater sought in the instant Application interfers with existing water rights in the subject basin.
- 4. The granting or approval of the instant Application would conflict with or tend to impair existing water rights in the subject Basin in that it would exceed the safe yield of the subject Basin and unreasonably lower the static water level and sanction water mining which is contrary to public policy in the State of Nevada.
- 5. That the appropriation of the water sought in the instant Application, when added to the other pending Applications and to the already approved appropriations and dedicated uses in the subject Basin, will lower the static water level in subject Basin, will adversely affect the quality of the remaining ground water and will further threaten springs, seeps and phreatophytes which provide water and habitat critical to the use and survival of wildlife, grazing livestock and other surface existing uses.

- 6. This Application is one of approximately 147 applications filed by the Las Vegas Valley Water District seeking a combined appropriation of approximately 860,000 acre feet of ground and surface water for municipal use in the Las Vegas Valley Artesian Basin. Diversion and export of such a quantity of water will deprive the county and area of origin of the water needed for its environment and economic well being and will unnecessarily destroy or damage environmental, ecological, scenic and recreational values that the State holds in trust for all its citizens.
- 7. The granting or approving of the subject Application in the absence of comprehensive planning, including but not limited to environmental impact considerations, socioeconomic impact considerations, and a water resource plan consideration for the general Las Vegas Valley area such as has been required by the Public Service Commission of private purveyors of water, is detrimental to the public welfare and interest.
- 8. The granting or approving of the subject Application in the absence of comprehensive water resource development planning, including but not limited to, environmental impacts, socioeconomic impact, and long term impacts on the water resource, threatens to prove detrimental to the public interest.
- 9. Granting or approval of the above-referenced Application would be detrimental to the public interest in that it individually and cumulatively with other applications of the water exploration project would:
  - Likely jeopardize the continued existence of endangered and threatened species recognized under the Endangered Species Act and related state statues;
  - (2) Prevent or interfere with the conservation and management of those threatened or endangered species;
  - (3) Take or harm those endangered species; and
  - (4) Interfere with the purpose for which the Federal lands are managed under Federal statutes including, but not limited to, the Federal Land Use Policy Act of 1976.
- 10. That the withdrawal of the ground water sought in this Application and/or in conjunction with withdrawal of groundwaters sought in other Applications in the subject Basin included in the water importation project will exceed the annual recharge and safe yield of the basin and will cause the loss of surface plant communities that provide forage and habitat for wildlife and forage for livestock, thus eliminating those uses of the basin.

- 11. That the granting of this Application together with the companion Applications filed as part of the water importation project will necessitate the Applicant to locate well sites, build road and power lines to each well site, causing surface disturbance and degradation of the environment, including loss of wildlife habitat, wildlife populations, and grazing lands for livestock.
- 12. The approval of the subject Application will sanction and enhance the willful waste of water allowed, if not encouraged, by the Las Vegas Valley Water District, and that such waste of water is contrary to public policy in the State of Nevada.
- 13. The subject Application seeks to develop the water resources of, and transport water across, lands of the United States under the jurisdiction of the United States Department of Interior, Bureau of Land Management. This application should be denied because the Las Vegas Valley Water District has not obtained or demonstrated that it can obtain right-of-way for water development on public lands and the transportation of water from the proposed point of diversion to the service area of the Las Vegas Valley Water District in Clark County, and therefore cannot show that the water will ever be placed in beneficial use.
- 14. The Application should be denied because it individually and cumulatively with other Applications of the water importation project will perpetuate and may increase the inefficient use of water and frustrate efforts of water demand management in the Las Vegas Valley Water District service area.
- 15. The Las Vegas Valley Water District lacks the financial capability of transporting water under the subject permit as a prerequisite to placing the water to beneficial use and accordingly, the subject Application should be denied.
- 16. The above-reference Application should be denied because the Application fails to adequately include the statutorily required information, to wit;
  - Description of proposed works;
  - (2) The estimated cost of such works;
  - (3) The estimated time required to construct the works and the estimated time required to complete the application of water to beneficial use; and
  - (4) The approximate number of persons to be served and the approximate future requirement.
- 17. The subject Application should be denied because it individually and cumulatively with other Applications will exceed the safe yield of the subject Basin thereby adversely affect phreatophytes and create air contamination and air pollution in

violation of State and Federal Statutes, including but not limited to, the Clean Air Act and Chapter 445 of the Nevada Revised Statutes.

- 18. The Application cannot be granted because the applicant has failed to provide information to enable the State Engineer to guard the public interest properly. This Application and related applications associated with this major withdrawal of groundwater out of the basin cannot properly be determined without an independent, formal and publicly-reviewable assessment of:
  - a. cumulative environmental and socioeconomic impacts of the proposed extractions;
  - b. mitigation measures that will reduce such impacts of the proposed extractions;
  - c. alternatives to the proposed extractions, including but not limited to, the alternatives of no extraction and mandatory and effective water conservation in the Las Vegas Valley Water District service area.
- 19. That this Application should be denied because the Applicant has failed to provide to Protestant relevant information regarding this Application and other Applications which comprise this project as required by N.R.S. 533.363. That the failure to provide such relevant information denies Protestant due process of law under Chapter 533, N.R.S., in that said relevant information may provide Protestant with further meaningful grounds of protest, and that Protestant may be forever barred from submitting such further grounds of protest because the protest period may run before Applicant provides such required information. That the failure of Applicant to provide such information denies Protestant with meaningful opportunity to submit protests to this Application and other Applications included in this project as allowed by Chapter 533, N.R.S.
- 20. The subject Application should be denied because the population projections upon which the water demand projections are based are unrealistic and ignore numerous constraints to growth, including traffic congestion, increase costs of infrastructure and services, degraded air quality, etc.
- 21. The subject Application should be denied because previous and current conservation programs instituted by the Las Vegas Water District are ineffective, public-relations oriented efforts that are unlikely to achieve substantial water savings. Public policy and public interest considerations should preclude the negative environmental and socioeconomic consequences of the proposed transfers on areas of origin when the potential water importer has failed to make a good-faith effort to efficiently use currently available supplies.
- 22. The subject Application should be denied because the enormous costs of the project likely will result in water rate increases of such a magnitude that demand will be substantially reduced, thereby rendering the water transfer unnecessary.

- 23. The granting or approval of the above-referenced Application would be detrimental to the public interest and is not made in good faith since it would allow the Las Vegas Valley Water District to lock up vital water resources for possible use sometime in the distant future beyond current planning horizons.
- 24. The subject Application should be denied because current and developing trends in housing, landscaping, national plumbing fixture stands, and demographic patterns all suggest that the simplistic water demand forecasts upon which the proposed transfers are based substantially overstate future water demand needs.
- 25. The subject Application should be denied because the enormous costs of the project likely will result in water rate increases of such a magnitude that demand will be substantially reduced, thereby rendering the transfers unnecessary.
- 26. The subject Application should be denied because the current per capita water consumption rate for the the Las Vegas Valley Water District currently is double that of similarly situated southwestern municipalities. This suggests enormous potential for more cost-effective supply alternatives, including demand management and effluent re-use, which avoid the negative impacts on rural areas of origin and have not been considered.
- 27. That the State Engineer has previously denied other groundwater Applications submitted by other Applicants in the subject basin, said Applications having been prior in time to the instant Application and those associated with the water importation project. That the grounds of denial for prior Applications should apply equally to the instant Application and if appropriate, should provide grounds to deny the instant Application.
- 28. Inasmuch as water extraction and the trans-basin conveyance project of this magnitude has never been considered by the State Engineer, it is therefore impossible to anticipate all potential adverse affects without further study. Accordingly, the Protestant reserves the right to amend the subject protest to include such issues as they develope as a result of further study.
- 29. The undersigned additionally incorporates by reference as though fully set forth herein and adopts as its own, each and every other protest to this Application and/or to any Application filed that is included in this project and filed pursuant to N.R.S. 533.365.

In the Matter of Application Number 53991	1
Filed by Las Vegas Valley Water District	PROTECT
on October 17, 1989, TO APPROPRIATE THE	PROTEST
WATERS OF Underground	
Comes now Waslaw A Hala	
Comes now Wesley A. Holt  Printer  Whose post office address is P. O. Boy 207 Contents	d or typed name of protestant
DOX 307 Calie	ente, Nevada 89008
whose occupation isMerchant	and protests the granting
of Application Number53991, filed on	October 17 19.89
by Las Vegas Valley Water District  Printed or typed name of arm	licant to appropriate the
	situated in Lincoln
ounty. State of Nevada, for the following reasons and or	the following grounds as with
This application is one of 105 application	us filed by the Las Vegas Valley Water
District seeking to appropriate 589,000 ac	
within the service area of the District in	
such a quantity of water will lower the s	tatic water level in 182Basin, will adversely
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	er and will further threaten springs, seeds
	habitat critical to the survival of wildlife
grazing livestock and other surface area e	xisting uses.
THEREFORE the protestant requests that the application	he Denied
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and that an order be entered for such relief as the State En	gineer deems just and proper.
Signed [	Lesly a Holl
	Wesley A. Holt
Address	Printed or typed name, if agent
	Street No. or P.O. Box No. Caliente, Nevada 89008
	City, State and Zip Code No.
ubscribed and sworn to before me this day of day	July 1920.
	Notary Public
G. PERRY WILSON State of	Nessa
LINCOLN COUNTY   County of	Lincoln
)) My Appointment Expires JULY 30, 1991	

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.
ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

IN THE MATTER OF APPLICATION NUMBER 53991, FILED BY LAS VEGAS VALLEY WATER DISTRICT, ON MARCH 19, 1990, TO APPROPRIATE UNDERGROUND WATER IN LINCOLN COUNTY

PROTEST

The Moapa Band of Paiute Indians, P.O. Box 340, Moapa, NV 89025, a federally recognized Indian tribe, hereby protests the granting of Application Number 53991 filed on March 19, 1990, by the Las Vegas Valley Water District to appropriate underground water situated in Lincoln County, State of Nevada, on the grounds set forth in Exhibit A attached.

The protestant requests that the application be denied and that an order be entered for such relief as the State Engineer deems just and proper.

MOAPA BAND OF PAIUTE INDIANS

By:\_\_\_\_

Mone Slni

Marc D. Slonim, Attorney
ZIONTZ, CHESTNUT, VARNELL, BERLEY
& SLONIM
2101 Fourth Ave., Suite 1230
Seattle, WA 98121

Seattle, WA 9812 (206) 448-1230

Subscribed and sworn to before me this 6th day of July, 1990.

Notary Public

State of Washington

King County

NOTARY ICALISE
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#### EXHIBIT A

This application is one of 147 applications filed by the Las Vegas Valley Water District ("LVVWD") seeking to appropriate approximately 865,000 acre feet of water for municipal and domestic use. The Moapa Band of Paiute Indians protests this application on the following grounds:

- 1. No Authority. The application seeks a permit to extract and export ground water from federal lands on which LVVWD holds no interest. The State Engineer has no authority to issue a permit under these circumstances.
- Application Deficient. The application is deficient under NRS 533.335 and 340 because it does not include:
  - a. an adequate description of the proposed works;
  - b. an adequate estimate of the costs of such works;
  - c. an adequate estimate of the time required to construct the works and to apply the water to beneficial use;
  - d. adequate approximations of the number of persons to be served and future requirements; and
  - e. the dimension of the proposed resevoirs and a description of the land to be submerged by the impounded waters.
- 3. Application Otherwise Incomplete. The application, by itself and in combination with the other LVVWD applications, raises enormous and unprecedented environmental and socio-economic issues. It would be detrimental to the public interest to approve the application before these issues are carefully considered. The application contains no information to enable such consideration. The State Engineer should exercise his authority under NRS 532.120, 165 and 170, NRS 533.350 and other applicable law to obtain the following additional information:
- a. an independent assessment of the environmental and socio-economic impacts of the proposed extractions, associated structures and transportation systems, and uses, and alternatives thereto, prepared in accordance with standards similar to those for environmental impact statements under the National Environmental Policy Act and its implementing regulations; and
- b. a water resource plan for the Las Vegas Valley area similar to the water resource plans required by the Public Service

Commission from private purveyors of water.

- 4. Conflict with Existing Rights. The proposed use, by itself and in combination with those under the other LVVWD applications, conflicts with existing water rights, including but not limited to the prior and paramount rights of the Moapa Band of Paiute Indians to the waters of the Muddy River and to ground water underlying the Moapa Indian Reservation.
- 5. Other Legal Defects and Detriments to the Public Interest. The proposed use, by itself and in combination with those under the other LVVWD applications, is both unlawful and threatening to the public interest for the following reasons:
- a. LVVWD holds no rights to enter upon the subject lands, extract the water, transport the water to its intended place of use (including proposed transportation across the Moapa Indian Reservation), or otherwise exercise the water rights it seeks. Moreover, LVVWD lacks the financial capability to construct the necessary works and transport the water to its intended place of use. Under these circumstances, it would disserve the public interest to grant LVVWD control (for decades or more) over the massive quantities of water covered by its applications. In addition, according such control to LVVWD would conflict with federal law and policy regarding the use or disposition of the federal lands covered by the applications.
- b. Such use will exceed the annual recharge and safe yield of each basin and result in the permanent depletion or mining of ground water, the lowering of the water table and static water level, negative hydraulic gradient influences, and other adverse impacts on the location and quantity of water resources.
- c. Such use will adversely affect water quality, and thus impair existing municipal and other uses.
- d. Such use will degrade wetlands and riparian habitats, including these on public lands and in Death Valley National Monument, Great Basin National Park, Lake Mead National Recreation Area, and national wildlife refuge units.
- e. Such use will damage wetlands, springs, seeps and phreatophytes which provide water and habitat for migratory species, other wildlife, grazing livestock, and other existing uses.
- f. Such use will jeopardize the existence of endangered and threatened species, including but not limited to the desert tortoise, prevent or interfere with the conservation of such species, and take or harm such species.

g. Such use will impair environmental, scenic and recreational values that the State holds in trust for all of its citizens.

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- h. Such use will encourage waste and discourage reasonable conservation measures within LVVWD's service area.
- i. Such use will lead to regional air pollution (particularly carbon monoxide and particulates) in violation of law.
- 6. Other Grounds. We incorporate by reference and adopt all other grounds set forth in every other protest filed with respect to this application. In addition, we reserve the right to amend this protest to assert additional grounds on the basis of new or as yet undisclosed information regarding these applications and the effects thereof.

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exhibit.a

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STATE ENGINEERS OFFILE

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In the Matter of Application Number 53991

Filed by the Las Vegas Valley Water District
on October 17, 1989 to Appropriate the

Waters of Underground

**PROTEST** 

Comes now the County of Nye, State of Nevada, whose post office address is P.O. Box 1767, Tonopah, NV, 89049, whose occupation is Political Subdivision, State of Nevada, and protests the granting of Application Number 53991, filed on October 17, 1989, by the Las Vegas Valley Water District to appropriate the waters of Underground situated in Lincoln County, State of Nevada, for the following reasons and on the following grounds, to wit:

See attached.

THEREFORE the protestant requests that the application by **DENIED** and that an order be entered for such relief as the State Engineer deems just and proper.

Stephen T. Bradhurst, Agent

Address: P.O. Box 1510, Reno, NV 89505

Notary Public

Subscribed and sworn to before me this 6th

\_ day of July \_\_\_,=1990.

State of Nevada

County of Washoe

SANDRA A. HADLOCK
NOTARY PUBLIC
STATE OF NEVADA
WASHOE COUNTY
My Apont. Expires JULY 15, 1990

#### REASONS AND GROUNDS FOR PROTEST BY NYE COUNTY

The Nye County Board of Commissioners, State of Nevada, does hereby protest the above-referenced Application for the following reasons and on the following grounds, to wit:

- 1. Upon information and belief protestant asserts that there is not sufficient unappropriated ground water in host water basin to provide the water sought in the above-referenced Application and all other pending applications involving the utilization of surface and ground water from the basin.
- 2. The appropriation of this water when added to the already approved appropriations and existing uses and water rights in host water basin will exceed the annual recharge and safe yield of the basin. Appropriation and use of this magnitude will lower the water table; degrade the quality of water from existing wells; cause negative hydraulic gradient influences; and threaten springs, seeps and phreatophytes which provide water and habitat that are critical to the survival of wildlife and grazing livestock.
- 3. The granting or approval of the above-referenced Application would unreasonably lower the water table and sanction water mining, which is contrary to Nevada law and public policy.
- 4. This Application is one of 146 applications filed by the Las Vegas Valley Water District seeking a combined appropriation of some 864,195 acre-feet of ground and surface water primarily for municipal use in Clark County. Diversion and export of such a quantity of water will deprive the area of origin of the water needed to protect and enhance its environment and economic well-being; and the diversion will unnecessarily destroy environmental, ecological, scenic and recreational values that the State holds in trust for all its citizens.
- 5. The granting or approval of the above-referenced Application in the absence of comprehensive water-resource development planning, including, but not limited to, environmental-impact considerations, socioeconomic-impact considerations, cost/benefit considerations, water-resource evaluation by an independent entity, and a water-resource plan for the Las Vegas Valley Water District (such as is required by the Public Service Commission of water purveyors) is detrimental to the public welfare and interest.
- 6. The granting or approval of the above-referenced Application would be detrimental to the public interest in that it, individually and together with other applications of the water importation project, would:
  - a. Likely jeopardize the continued existence of endangered and threatened species recognized under the federal Endangered Species Act and related state statutes:

- b. Prevent or interfere with the conservation of those threatened or endangered species;
- c. Take or harm those endangered or threatened species; and
- d. Interfere with the purpose for which the federal lands are managed under federal statutes including, but not limited to, the Federal Land Use Policy Act of 1976.
- 7. The granting or approval of the above-referenced Application will sanction and encourage the willful waste of water that has been allowed, if not encouraged, by the Las Vegas Valley Water District. Said waste of water is contrary to Nevada law and public policy.
- 8. The subject Application seeks to develop the water resources of, and transport water across, lands of the United States under the jurisdiction of the United States Department of Interior. This Application should be denied because the Las Vegas Valley Water District has not obtained or demonstrated that it can obtain the necessary legal interest (right-of-way) on said lands to extract, develop and transport water from the point of diversion to the point of use in the Las Vegas Valley Water District service area. Therefore, the Las Vegas Valley Water District cannot show that the water will ever be placed in beneficial use.
- 9. The Application should be denied because it individually and cumulatively with other applications of the water importation project will perpetuate and may increase the inefficient use of water in the Las Vegas Valley Water District service area and frustrate efforts at water-demand management in the Las Vegas Valley Water District service area.
- 10. The Las Vegas Valley Water District lacks the financial capability for developing and transporting water under the subject permit, which is a prerequisite to putting the water to beneficial use; and accordingly, the subject Application should be denied.
- 11. The above-referenced Application should be denied because it fails to adequately include the statutorily required information, to wit:
  - a. Description of proposed works;
  - b. The estimated cost of such works;
  - c. The estimated time required to construct the works and the estimated time required to complete the application of water to beneficial use;
  - d. The approximate number of persons to be served and the future requirement; and
  - e. The dimensions and location of proposed water-storage reservoirs, the capacity of the proposed reservoirs, and a description of the lands to be submerged by impounded waters.

- 12. The subject Application should be denied because it individually and cumulatively with other applications of the proposed project will exceed the safe yield of host water basin thereby adversely affecting phreatophytes and creating air contamination and air pollution in violation of State and Federal Statutes, including, but not limited to, the Clean Air Act and Chapter 445 of the Nevada Revised Statutes.
- 13. The Application cannot be granted because the applicant has failed to provide information to enable the State Engineer to properly safeguard the public interest. The adverse effects of this Application and related applications associated with the proposed water appropriation and transportation project (largest appropriation of ground water in the history of the State of Nevada) cannot properly be evaluated without an independent, formal and publicly reviewable assessment of the following:
  - a. The water resources of the proposed area of diversion and the cumulative effects of the proposed diversions;
  - b. Mitigation measures that will reduce the impacts of the proposed extraction; and
  - c. Alternatives to the proposed extraction, including, but not limited to, the alternatives of no extraction and aggressive implementation of all proven and cost-effective water-demand management strategies.
- 14. The above-referenced Application should be denied because the applicant has failed to provide the protestant relevant information regarding this Application and other applications which comprise the proposed importation project (works) as required by N.R.S. 533.363. The failure to provide such relevant information denies protestant due process of law under Chapter 533, N.R.S., in that said relevant information may provide protestant with further meaningful grounds of protest, and that protestant may be forever barred from submitting such further grounds of protest because the protest period may end before Applicant provides such required information. The failure of applicant to provide such information denies protestant the meaningful opportunity to submit protests to this Application and other applications associated with the water importation project as allowed by Chapter 533, N.R.S.
- 15. The subject Application should be denied because the population projections upon which the water-demand projections are based are unrealistic and ignore numerous constraints to growth, including traffic congestion, increased costs of infrastructure and services, degraded air quality, protection of rare and endangered species, etc.
- 16. The subject Application should be denied because previous and current conservation programs instituted by the Las Vegas Valley Water District are inefficient public-relations-oriented efforts that are unlikely to achieve substantial water savings. Public-policy and public-interest considerations should preclude the negative environmental and socioeconomic consequences of the proposed transfers on areas of origin when the potential water importer has failed to make a good-faith effort to efficiently use currently available supplies.

- 17. The subject Application should be denied because the enormous costs of the project likely will result in water-rate increases of such a magnitude that demand will be substantially reduced, thereby rendering the water transfer unnecessary.
- 18. The granting or approval of the above-referenced Application would be detrimental to the public interest and not made in good faith since it would allow the Las Vegas Valley Water District to lock up vital water resources for possible use sometime in the distant future beyond current planning horizons.
- 19. The subject Application should be denied because current and developing trends in housing, landscaping, national plumbing-fixture standards and demographic patterns all suggest that the simplistic water-demand forecasts upon which the proposed transfers are based substantially overstate future water-demand needs.
- 20. The subject Application should be denied because the current per capita water-consumption rate for the Las Vegas Valley Water District is double that of similarly situated southwestern municipalities. This suggests enormous potential for most cost-effective supply alternatives, including demand management and effluent re-use. These alternatives have not been seriously considered by the Las Vegas Valley Water District.
- 21. The above-referenced Application should be denied because the State Engineer has previously denied other applications for water from the host water basin, said applications having been prior in time to the instant Application and those applications associated with the water importation project. The grounds for denial (e.g., applicant does not own or control the land on which the water is to be diverted, approval would be detrimental to the public welfare, etc.) of the prior applications should apply equally to the instant Applicant and provide grounds to deny the instant Application.
- 22. The granting or approval of the above-referenced Application and the other applications associated with the water-importation project will most likely have a negative impact on Nevada's environment (see the report entitled Las Vegas Water Importation Project Technology Assessment by Baughman and Finson). Therefore, the subject Application should be denied by the State Engineer since it is the public policy of the State of Nevada, per Governor Bob Miller's January 25, 1990, State of the State Address, to protect Nevada's environment, even at the expense of growth (see page 11 of the Address).
- 23. The State Engineer is a member of the State of Nevada Environmental Commission (N.R.S. 445.451). This entity has the duty to prevent, abate and control air pollution in the State of Nevada, including Las Vegas Valley. Air pollution in Las Vegas Valley is so bad that the Valley has been classified a non-attainment area for national and state ambient air-quality standards for CO and PMIO. The Las Vegas Valley Water District applications for water from central, eastern and southern Nevada are for the purpose of securing water to encourage and support future growth in Las Vegas Valley. The State Engineer should deny the above-referenced Application and the other applications associated with the water-importation project since more water means more growth—therefore, more air

pollution. The State Engineer should be taking steps to ameliorate the air-quality problem in Las Vegas Valley, not exacerbate it. The State Engineer, along with the other members of the Environmental Commission, has the legal and moral responsibility to prevent air pollution in Las Vegas Valley. Therefore, the Commission should protest the subject application and the other applications associated with the growth-inducing project.

- 24. The above-referenced Application should be denied because economic activity in the area of the proposed point of diversion is water-dependent (e.g., grazing, recreation, etc.); and a reduction in the quantity and/or quality of water in the area would adversely impact said activity and the way of life of the area's residents.
- 25. The above-referenced Application and the other applications associated with the water-importation project should not be approved if said approval is influenced by the State Engineer's desire or need to ensure that there is sufficient water for those lots and condominium units created in Las Vegas Valley by subdivision maps. These maps were approved by the State Engineer, and he certified that there is sufficient water for the lots and units created by the maps. If there is not sufficient water for these lots and units, then Clark County water resources (e.g., water created by conservation, water saved by re-use, etc.) should be developed and assigned to the water-short lots and units.
- On information and belief the Las Vegas Valley Water District applications to appropriate water from central, eastern and southern Nevada should be denied since the District has not shown a need for the water and the feasibility (technical and financial) of the water-importation project. The District's need for the water and the feasibility of the water-importation project should be components of a water-resource plan approved by the Public Service Commission of Nevada (see N.R.S. 704.020(2)(b)).
- 27. Las Vegas Valley Water District public statements and written material indicate that approximately 61 percent of the water rights sought by the District (via the 146 applications) are to be temporary water rights. But, the applications (146) state the water is to be used on a permanent basis. Therefore, the subject applications, including the above-referenced Application, should be denied because the public has been denied relevant information and due process.
- 28. The above-referenced Application and the other applications associated with the water-importation project should be denied since removing water from central, eastern and southern Nevada to Las Vegas Valley will adversely impact economic activity (current and future) of the water-losing area. Some of the economic impacts are as follows:
  - a. Agriculture: The combination of sunlight, water resources (ground water and geothermal sources), technology for intensified forms of agriculture, and growing markets (particularly in Las Vegas and Los Angeles) might create conditions for new agricultural development. A lack of water resources that can be developed would foreclose these additions to the economy of the region and the state:

- Fish farming using thermal springs
- · Truck gardens or cotton crops
- Greenhouses for flowers or hydroponic vegetables, either alone or in conjunction with electric cogeneration plants.

In addition, the removal of ground water might damage the existing agricultural economy of the area by decreasing grazing available for cattle and sheep and decreasing crops like hay. Water rights are often gained by the purchase of agricultural land that has the water rights attached; then the purchaser takes the land out of agricultural production and removes the water to another, non-agricultural use. The three counties most affected by the granting of Las Vegas Valley Water District's applications—Nye, White Pine and Lincoln—had combined sales of cattle of over \$7,000,000 in 1987 and combined sales of other agricultural products of \$3,500,000 in the same year, according to the U.S. Department of Commerce. Removal of ground water could affect existing water sources for irrigating hay, and decrease forage available for cattle and sheep to the detriment of the agricultural segment of the economy of the three counties.

- b. Power Generation and Transmission: The removal of ground water could inhibit or preclude opportunities for power production, which generally uses water for cooling and in steam generation. The transmission lines developed to connect the White Pine and Thousand Springs Power Plants to the regional grid (with connection point in Henderson from White Pine), linked to electric-power-hungry markets in Las Vegas and southern California, might offer economic development potentials:
  - Production of electric power from geothermal sources could be connected to the transmission line for sales in the region or outside the state
  - Electric generation from locally produced natural gas or oil, or from natural gas from the Kern River Pipeline, could also be connected to the grid
  - Costs of solar power are declining and, under certain circumstances, are similar to other power production. Nevada's climate and open spaces, combined with access to a transmission line, could make solar-power production attractive.

Just as importantly, solar-, geothermal- and thermal-power production could provide inexpensive power for new dispersed activities in the three counties that are not now close enough to the electric grid for economic tie-in.

c. Mineral Extraction: Oil and natural gas offer major (though as yet highly uncertain) prospects. There is informed speculation that this area is the last major unexplored resource in the continental United States. Dwindling supplies elsewhere, in combination with reduction of imports, could produce important opportunities in Nevada. The development of other mineral resources is likely, and some could be of significant scale (e.g., Bond Gold), either as now, transported to linked industries, or as an attraction for colocation (see below).

Gold, however, is not the only mineral found in minable quantities and qualities in the region. Silver, molybdenum, and copper also are an important part of the economies of the three counties and so, to a lesser degree, is the extraction of mercury, fluorspar, calcium borate, zinc, lead and perlite. Each of these minerals is currently being produced in the region. As demand in the world changes for minerals, these and others may make important contributions to the region's and the state's economy. The effect on mining of removal of ground water from the region should be fully understood before the applications are approved.

- d. Manufacturing: Space-requiring industries (e.g., Aero-Jet, Southern California Aerospace, etc.), which are increasingly constrained in the Los Angeles metroplex, could choose locations in the Nevada desert, particularly if other infrastructure (rail, highways, electric power, water, etc.) were available. Those interested could include:
  - Manufacturers requiring Nevada's clean air or large expanses of uninhabited land
  - Industry serving the U.S. Departments of Defense and Energy
  - · Producers of garning devices or photovoltaic equipment
  - Manufacturers dependent upon minerals extracted in Nevada, or serving those industries.
- e. Tourism: Though slow to develop, tourism and travel could increase between Interstate Highways 80 and 15. Development could include facilities such as attractions for those enjoying Nevada's laws on gaming, and health spas centered around thermal hot springs and Nevada's clean air and quiet, empty landscapes.

Geothermal wells deserve particular mention regarding tourism. The region has many documented geothermal sources with varying temperatures suitable for a variety of uses. It is widely believed that the extraction of ground water will decrease the flow of these springs before their potential is fully developed. The Japanese, for instance, especially enjoy thermal waters and often make them a part of their vacations as well as daily life; Europeans have flocked to health spas for centuries. It is possible that geothermal springs could be developed into a lucrative tourist attraction, but not if the ground water is so depleted that it reduces or eliminates geothermal sources.

Wildlife could also be adversely affected. The National Park Service, in a publication about outside threats to Death Valley, says that "Environmental impacts are probable to . . . Sunnyside/Kirch Wildlife Management Area, Railroad Valley wetlands areas, Key Pittman Wildlife Management Area, Pahranagat National Wildlife Refuge, and the Ash Meadows National Wildlife Refuge if the [LVVWD] applications are approved." Damage to or loss of wildlife areas could cause a decline in tourist visits to the region and prevent expansion.

An unpublished assessment of Las Vegas Valley Water District's project by Mike L. Baughman reports that the three counties "contained 275 [water-

related recreational] sites . . . estimated to support in excess of 700,000 resident recreation visitor days." Nevadans, as well as tourists from other areas, may mourn damage to these recreational sites.

- f. Concentration of Population: The state of Nevada should consider the important public-policy issues concerning dispersal of population, which are an inherent, if unspoken, part of the debate on appropriation of the region's water. Some of those issues are:
  - Whether foreclosure (because of insufficient water) of economic prospects outlined above preclude a more effectively and efficiently organized state of Nevada, from both an economic and a political point of view
  - Whether a large (\$1.5 billion) investment in infrastructure in rural Nevada could be used to encourage a growth pattern different from and superior to the current concentration in Reno and Las Vegas
  - Equity issues in the lack of representation of the state's rural population in state decision-making
  - Beneficial use of sparsely populated land areas.
- g. Interrelationships: Many of the economic potentials are interrelated to, and even dependent upon, each other:
  - If sufficient water is unavailable for electric-power generation, not only is electric power not produced and sold, but dispersed manufacturing or development of tourist attractions will not occur.
  - If the water table is lowered sufficiently to reduce or stop the flow of thermal springs, fish farming will not develop, and related industries such as manufacturing of packing materials or frozen-food packing plants will not be built
  - Without sufficient water for growth in residential use, even industries that use little or no water may be unable to locate in central and eastern Nevada. Any impact assessment that projected increases in population would trigger a requirement for additional water resources, a requirement that could not be met.

When water that has remained underground for 10,000 years is removed at a rate that is (even temporarily) faster than it can be recharged, that action will change the future of Nevada unalterably. It is critical that the decision-making process that concerns exporting water from rural to urban counties fully addresses the complex nature of a region's economic potentials.

29. Inasmuch as a water extraction and transbasin conveyance project of this magnitude has never been considered by the State Engineer, it is therefore impossible to anticipate all potential adverse effects without further information and study. Accordingly, the protestant reserves the right to amend the subject protest to include such issues as they may develop as a result of further information and study.

30. The undersigned additionally incorporates by reference as though fully set forth herein and adopts as its own, each and every other protest to this Application and/or any application filed that is associated with the water-importation project and filed pursuant to N.R.S. 533.365.

IN THE MATTER OF APPLICATION NUMBER 53991 FILED BY LAS VEGAS VALLEY WATER DISTRICT ON OCTOBER 17, 1989, TO APPROPRIATE THE WATERS OF UNDERGROUND

PROTEST

Comes now Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service, whose post office address is 301 S. Howes Street, Room 353, Fort Collins, Colorado, 80521, whose occupation is Chief, Water Rights Branch, Water Resources Division, National Park Service, and protests the granting of Application Number 53991, filed on October 17, 1989, by Las Vegas Valley Water District to appropriate the water of Underground Basin 182, DELAMAR VALLEY, situated in LINCOLN County. State of Nevada, for the following reasons

Exhibit

and on the following grounds, to wit:
See Exhibits A through D attached.
THEREFORE the protestant requests that the application be $\operatorname{denied}$ (See E, attached).
Signed Agent or protestant
Owen R. Williams Printed or typed name, if agent
Address 301 South Howes St., Room 353 Street No. or P.O. Box No.
Fort Collins, CO 80521 City, State and Zip Code No.
Subscribed and sworn to before me this 5 day of July , 1990.  Notary Public
State of <u>Colorado</u>
County of <u>Larimer</u>
My Commission expires $\frac{3/6/9/}{}$ .



#### EXHIBIT A

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

- I. The mission of the National Park Service (NPS) may be paraphrased from 16 U.S.C. 1, as conserving scenery, natural and historic objects, and wildlife, and providing for enjoyment of the same in such a manner and by such means as will leave them unimpaired for the enjoyment of future generations. The public interest will not be served if water and water-related resources in the nationally important Death Valley National Monument (Death Valley NM) and Lake Mead National Recreation Area (Lake Mead NRA) are diminished or impaired as a result of the appropriation proposed by this application.
- II. Death Valley NM was created by Presidential Proclamation in 1933 to preserve unusual features of scenic, scientific, and educational interest. The proclamation gives warning to unauthorized persons not to appropriate, injure, destroy, or remove any feature of this monument. Springs and water-related resources are important features of the Monument. The NPS is entitled to Federal reserved water rights for reserved lands within Death Valley NM. The priority dates for these reserved rights are the dates when the lands were reserved and are senior to the appropriation sought by this application. These rights have not been judicially quantified.
  - A. In the eastern part of the Monument, Grapevine, Keane Wonder, Nevares, Texas, Travertine and Saratoga Springs provide water for park facilities, domestic use, public campgrounds, resorts, vegetation, wildlife, public enjoyment, scenic value and other related needs. Nevares, Texas, and Travertine Springs collectively discharge about 2,000 gallons per minute (about 3,200 acre-feet per year) and are critical for domestic and commercial use.

Public visitation to Death Valley NM for the past 5 years is approximately as follows:

1985 - 601,000 1986 - 611,000 1987 - 693,000 1988 - 721,000 1989 - 692,000

The Monument supplies water for visitors from the above-named springs. For example, during 1988, water from these springs supported approximately 275,000 overnight campers in Death Valley NM campgrounds, 98,000 people at resorts within the Monument,

#### EXHIBIT A (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

200 NPS employees and families (at the height of the season), 410 resort employees, a population of 50 Native Americans, and 32 other residents.

B. The springs mentioned above, in addition to more than 350 others in Death Valley NM, support vegetation and critical wildlife habitat. For example, two species of snails, which are candidates for threatened or endangered species listing, are found within Death Valley NM and live at certain springs. The Badwater snail (Assiminea infima) is found at Travertine and Nevares Springs and the Amargosa tryonia snail (Tryonia variegata) occurs at Saratoga Springs. Six other species of snails are endemic to Death Valley springs and are not found outside the Monument.

Desert bighorn sheep are also dependent upon the springs in Death Valley NM. Approximately 25 herds concentrate around Monument springs during the summer, rarely straying more than two miles away.

If approved, the appropriation and diversion proposed by this application will eventually reduce or eliminate the flows from springs at Death Valley NM which are discharge areas for regional ground-water flow systems. The NPS's senior appropriative and Federal reserved water rights, water resources, and water-related resource attributes will thus be impaired. Such impacts are not in the public interest.

- Hole, a detached unit of Death Valley NM in Nevada. Ground-water withdrawals near the unit previously caused a decline in the water level of the pool, exposing a rock shelf vital to the spawning of the pupfish (Dudley and Larson, 1976). Subsequently, the U.S. Supreme Court (later refined by the U.S. District Court) determined that a Federal reserved water right exists at Devil's Hole for the purpose of maintaining a water level sufficient to inundate the shelf on which the pupfish spawns (Cappaert v. United States, 1976). In addition, the Endangered Species Act and its amendments impose obligations on Federal agencies to conserve endangered species such as the Devil's Hole pupfish. The appropriation and diversion proposed by this application will, eventually, cause the water level at Devil's Hole to fall, thereby impairing the senior Federal reserved water right for Devil's Hole.
- IV. Lake Mead NRA was established in 1964 to be administered for "...general purposes of public recreation, benefit, and use, and in a manner that

#### EXHIBIT A (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

will preserve, develop, and enhance, so far as practicable, the recreation potential, and in a manner that will preserve the scenic, historic, scientific, and other important features of the area...". Springs and water-related resource attributes are important features of the National Recreation Area. The NPS is entitled to Federal reserved water rights for reserved lands within Lake Mead NRA. The priority dates for these reserved rights are the dates when the lands were reserved and are senior to the appropriation sought by the Las Vegas Valley Water District (LVVWD). These rights have not been judicially quantified.

A. Numerous springs provide water for vegetation and wildlife habitat and create an environment that many visitors use and enjoy. Most springs are not fed by water from Lake Mead, and will be affected by up-gradient diversions.

Springs include Blue Point, Rogers, Corral, Kelsey's and Tassi Springs, and other smaller, unnamed springs. Visitation to Blue Point and Rogers Springs has been estimated at 5,000 visitors/year for each spring.

Desert bighorn sheep are also dependent upon the springs in Lake Mead NRA. A herd of approximately 150 use springs in the northern part of the National Recreation Area, while a herd of nearly 400 sheep use springs in the southern part.

- B. Thermal springs are found within Lake Mead NRA. Two of the larger and more frequented--Boy Scout and Nevada Hot Springs--have water temperatures of about 127°F throughout the year. Several smaller thermal springs of recreational and scientific interest also exist within Lake Mead NRA boundaries.
- C. The Muddy River, which originates from large discharge springs located northeast of Moapa, Nevada, flows into Lake Mead NRA at the north end of the lake's Overton Arm. The State of Nevada, Department of Wildlife, is leasing a portion of Lake Mead NRA adjoining the Muddy River for the purposes of the Overton Wildlife Management Area. This area supports a variety of waterfowl and vegetation.

If approved, the appropriation and diversion proposed by this application will eventually reduce or eliminate the flows of springs (including thermal springs) and the Muddy River within Lake Mead NRA

#### EXHIBIT A (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

which are discharge areas for regional ground-water flow systems. The NPS's senior water rights, water resources, and water-related resource attributes would thus be impaired. Such impacts are not in the public interest.

V. Lake Mead NRA has Nevada State appropriative water rights for the following, which will be impaired by the appropriation and diversion proposed by this application.

Name	Point of Diversion	<u>Certificate</u> <u>Number</u>
Kelsey's Springs	SW1/4 NW1/4, Sec 20, T16S, R68E MDBM	296
Rogers Spring	SE1/4 SE1/4, Sec 12, T18S, R67E MDBM	4476
Muddy Creek (River)	NW1/4 SE1/4, Sec 19, T16S, R68E MDBM	5126

VI. The diversion proposed by this application is located in the carbonate-rock province of Nevada. The carbonate-rock province is typified by complex interbasin regional flow systems that include both basin-fill and carbonate-rock aquifers (Harrill, et al., 1988, Sheet 1). Ground water flows along complex pathways through basin-fill aquifers, carbonate-rock aquifers, or both, from one basin to another. Ground-water flow system boundaries, and thus interbasin ground-water flows, are poorly defined for most of the carbonate-rock province (Harrill, et al., 1988, Sheet 1). The proposed diversion is expected to reduce interbasin flows and modify the direction of ground-water movement in adjoining hydraulically connected basins, reduce or eliminate spring and stream flows, and cause land subsidence and fissuring.

A central corridor of the carbonate-rock aquifers in southern Nevada (Dettinger, 1989) occurs within the carbonate-rock province. The corridor consists of a north-south "block" of thick, laterally continuous carbonate rocks and probably contains the principal conduits for regional ground-water flow from east-central Nevada into southern Nevada, with flow ultimately discharging through springs at Ash Meadows (including Devil's Hole), Death Valley, and Lake Mead (Dettinger, 1989, p. 13). Parts of east-central Nevada are a recharge area for the central corridor of the carbonate-rock and basin-fill aquifers in southern Nevada (Dettinger, 1989; Mifflin, 1988).

The major ground-water flow systems of southern and east-central Nevada described by Harrill, et al. (1988, Sheets 1 and 2) include Death Valley, Penoyer Valley, Railroad Valley, Newark Valley, and Colorado.

#### EXHIBIT A (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

These ground-water flow systems are within or tributary to the central corridor. The Death Valley flow system of Harrill, et al. (1988), includes the Ash Meadows flow system described by Winograd and Thordarson (1975). The Ash Meadows flow system discharges from springs at Ash Meadows and Death Valley NM and maintains the water level of Devil's Hole. The Colorado flow system of Harrill, et al. (1988) includes the White River flow system described by Eakin (1966). Winograd and Thordarson (1975) indicate that ground water flows from the White River flow system to the Ash Meadows flow system, ultimately discharging from springs at Ash Meadows and Death Valley, and maintaining water levels at Devil's Hole. Harrill, et al. (1988, Sheet 2) also show areas where ground water is transmitted from one flow system to another. Essington (1990) discusses several of the major flow systems mentioned above and their relationships to the water resources of Death Valley NM. The White River flow system discharges from the Muddy River springs and springs at Lake Mead NRA (See Eakin, 1966; Harrill, et al., 1988, Sheet 2; Dettinger, 1989, Figure 6).

The diversion proposed by this application is located within a basin which may be part of the central corridor, the recharge area for the central corridor and/or other parts of regional ground-water flow systems which discharge in the Ash Meadows, Death Valley and Lake Mead areas (Harrill, et al., 1988, Sheet 1, Figure 5; and Sheet 2). Thus, the diversion is expected to reduce the flow from springs at Death Valley NM and Lake Mead NRA and/or cause the water level at Devil's Hole to decline.

Some zones within the central corridor are highly transmissive, and act as large-scale drains which ultimately transmit much of the flow that discharges from large springs such as those at Ash Meadows, Death Valley NM and Lake Mead NRA. It has been hypothesized (Dettinger, 1989, p. 16) that the highly transmissive zones may stay highly transmissive only if large volumes of water continue to flow through them. Otherwise, openings in the rocks gradually fill with minerals and the rocks resolidify. The appropriation and diversion proposed by this application is expected to reduce the volume and velocity of ground water flowing through the drains which could begin the process of closing connected fractures and solution cavities, substantially impairing the capacity of the aquifer to transmit water.

Available scientific literature is not adequate to reasonably assure that the ground-water appropriation and diversion proposed by this application will not impact the senior water rights, water resources and

#### EXHIBIT A (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

water-related resources of Death Valley NM and Lake Mead NRA, and thereby impair the senior NPS water rights. Scientific literature indicates that Devil's Hole, and springs within Death Valley NM and Lake Mead NRA are hydraulically connected to regional ground-water flow systems and can be affected by an up-gradient ground-water diversion.

- VII. Besides this application, the LVVWD has submitted 1 additional applications to appropriate ground water in Basin 182, DELAMAR VALLEY (Exhibit B).
  - A. Diversions proposed by these applications, if developed, would be about 11591 acre-feet per year (Exhibit C and D).
  - B. As of December 1988, committed diversions of 120 acre-feet per year and an estimated perennial yield of 1000 acre-feet per year were reported for Basin 182, DELAMAR VALLEY (Nevada Department of Conservation and Natural Resources, 1988; Exhibit C).
  - C. The sum of the committed diversions and the diversions proposed by the LVVAD applications in this basin exceeds the estimated recharge of 1000 acre feet per year by 10711 acre-feet per year (Exhibit D) and the estimated perennial yield by 10711 acre-feet per year (Exhibit C).

A substantial overdraft of ground-water resources is expected to occur. The overdraft will cause ground-water levels to decline, alter the directions of ground-water flow, dry up playas, reduce or eliminate spring flows, and cause land subsidence and fissuring. The cumulative effects of these diversions in this basin are expected to cause impacts at Death Valley NM and Lake Mead NRA more quickly and/or to a greater degree than diversions under this application alone and thereby impair the senior NPS water rights. The diversions proposed by LVVWD in this basin exceed the water available for appropriation. The impacts described above are not in the public interest.

VIII. It should be noted also, that the LVVWD has submitted a total of 102 applications which propose the appropriation of 824 cubic feet per second (596690 acre-feet per year) of ground water from the central corridor of the carbonate-rock aquifer or a basin hydraulically connected to the central corridor (Exhibit B). The diversions proposed by LVVWD in these basins exceed the water available for appropriation. The cumulative effects of these diversions is expected to cause the

#### EXHIBIT A (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

impacts described in VII. above to appear more quickly and/or to a greater degree thandiversions within the subject ground-water basin, or under this application alone. This conclusion is supported by the following.

- A. Harrill, et al. (1988, sheet 2) have estimated an annual ground-water recharge of 221400 acre-feet for basins with proposed diversions as listed in Exhibit B (Exhibit D).
- B. The cumulative diversion proposed by these applications, when developed, will be approximately 596960 acre-feet per year (Exhibit D). This diversion rate exceeds the estimated cumulative recharge rate in the basins by 375560 acre-feet per year. A substantial overdraft of ground-water resources will occur as a result.
- C. As of December 1988, the latest available estimate of committed diversions and perennial yield were 203884 and 343750 acre-feet per year, respectively, for these basins (Nevada Department of Conservation and Natural Resources, 1988; Exhibit C).
- D. The sum of the committed diversions and the diversion rate proposed by these applications exceeds the estimated perennial yield by 457094 acre-feet per year (Exhibit C) and the estimated recharge rate in the basins by 579444 acre-feet per year (Exhibit D).
- IX. In this application, the points of discharge for return flow (treated effluent) have not been specified. The possibility exists that the return flow may be discharged into a hydrologic basin other than the basin of origin. This being the case, depletions to springs in Death Valley NM and Lake Mead NRA and a drop in the water level at Devil's Hole would occur more quickly and in greater magnitude than if treated effluent were returned to the basin of origin.
- According to NRS 533.060, "Rights to the use of water shall be limited and restricted to so much thereof as may be necessary, when reasonably and economically used for irrigation and other beneficial purposes..." Further, NRS 533.070 states that "The quantity of water from either a surface or underground source which may hereafter be appropriated in this state shall be limited to such water as shall reasonably be required for the beneficial use to be served." Implicit in these statements is a prohibition against waste and unreasonable use of water. It is unclear whether the quantity of water contemplated by this

#### EXHIBIT A (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

application, individually and in combination with applications 53947 through 54036, 54038 through 54066, 54068 through 54076, 54105, and 54106 by the LVVWD, is necessary and is an amount reasonably required for municipal and domestic purposes. Past open and notorious practices would indicate otherwise.

- XI. The application does not clearly indicate the place of use, the description of proposed works, estimated cost of works, number and type of units to be served or annual consumptive use. Nor, as described in X. above, is it clear that the appropriation sought is necessary and is in an amount reasonably required for the beneficial uses applied for. Therefore, the application is defective and should be summarily rejected by the State Engineer.
- XII. In sum, the NPS protests the granting of Application Number 53991, submitted by the LVVWD to appropriate and divert ground water, on the following grounds.
  - A. The public interest will not be served if water and water-related resources in the nationally important Death Valley NM including Devil's Hole, and Lake Mead NRA, are diminished or impaired as a result of the diversion proposed by this application.
  - B. The diversion proposed by this application will reduce or eliminate the flows of springs in Death Valley NM which are discharge areas for regional ground-water flow systems, thereby impairing the senior NPS water rights.
  - C. The diversion proposed by this application will cause the water level at Devil's Hole to fall, thereby impairing the senior Federal reserved water right for Devil's Hole.
  - D. If approved, the appropriation and diversion proposed by this application will eventually reduce or eliminate the flows of springs and the Muddy River within Lake Mead NRA which are discharge areas for regional ground-water flow systems. The NPS's senior water rights, water resources, and water-related resource attributes would thus be impaired. Such impacts are not in the public interest.
  - E. Lake Mead NRA has Nevada State appropriative water rights for Kelsey's Springs, Roger's Spring, and Muddy Creek (River) which

#### EXHIBIT A (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

will be impaired by the appropriation and diversion proposed by this application.

- F. Available scientific literature is not adequate to reasonably assure that the ground-water appropriation and diversion proposed by this application will not impact the senior water rights of Death Valley NM and Lake Mead NRA. The State Engineer will, therefore, be unable to make a determination that injury will not be manifest upon other water users, including the NPS.
- G. The cumulative effects of the diversion proposed by this application and other applications within this basin (Exhibit B) will impair the senior water rights of Death Valley NM and Lake Mead NRA more quickly and/or to a greater degree than the diversion under this application alone. The diversions proposed by LVVWD in this basin exceed the water available for appropriation.
- H. The cumulative effects of the diversion proposed by this application and other applications within the regional ground-water flow systems (Exhibit B) will impair the senior water rights of Death Valley NM and Lake Mead NRA more quickly and/or to a greater degree than diversions in the subject ground-water basin or under this application alone. The diversions proposed by LVVWD in these basins exceed the water available for appropriation.
- I. Depletions to regional ground-water flow systems, and hence springs in Death Valley NM and Lake Mead NRA, and a drop in the water level at Devil's Hole will occur more quickly and/or in greater magnitude if return flow (or treated effluent) is not discharged in the basin of origin.
- J. It is unclear whether the quantity of water claimed by this application, individually and in combination with applications 53947 through 54036, 54038 through 54066, 54068 through 54076, 54105, and 54106 is necessary and is an amount reasonably required for municipal and domestic purposes.
- K. The application does not clearly indicate the place of use, the description of proposed works, estimated cost of works, number and type of units to be served, or annual consumptive use. Nor is it clear that the diversion sought is necessary and in an amount reasonably required for the beneficial uses applied for.

#### EXHIBIT A (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

Therefore, the application is defective and should be summarily rejected by the State Engineer.

XIII. The NPS reserves the right to amend this exhibit as more information becomes available.

#### EXHIBIT B

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

The following applications were submitted by the Las Vegas Valley Water District for appropriations in basins within the central corridor, the recharge area for the central corridor, and/or other parts of the regional flow system (Nevada Division of Water Resources, 1990).

	======	:======================================	
Appli- cation no.	Basin no.	Basin Name	Proposed diversion rate, ft <sup>3</sup> /s
54060 54061	168 168	THREE LAKES VALLEY (NORTHERN PART) THREE LAKES VALLEY (NORTHERN PART)	6 10
54068	168	THREE LAKES VALLEY (NORTHERN PART)	6
54069	168	THREE LAKES VALLEY (NORTHERN PART)	10
53947	169A	TICKAPOO VALLEY (NORTHERN PART)	6
53948	169A	TICKAPOO VALLEY (NORTHERN PART)	10
53949	169A	TICKAPOO VALLEY (NORTHERN PART)	10
539 <b>50</b>	169B	TICKAPOO VALLEY (SOUTHERN PART)	6
53951	169B	TICKAPOO VALLEY (SOUTHERN PART)	10
53952	169B	TICKAPOO VALLEY (SOUTHERN PART)	10
54062	211	THREE LAKES VALLEY (SOUTHERN PART)	6
54063	211	THREE LAKES VALLEY (SOUTHERN PART)	6
54064	211	THREE LAKES VALLEY (SOUTHERN PART)	10
	211	THREE LAKES VALLEY (SOUTHERN PART)	10
54066	211	THREE LAKES VALLEY (SOUTHERN PART)	10
54106	211	THREE LAKES VALLEY (SOUTHERN PART)	10
53953	170	PENOYER VALLEY	6
53954	170	PENOYER VALLEY	10
<b>5</b> 395 <b>5</b>	170	PENOYER VALLEY	10
53956	171	COAL VALLEY	6
53957	171	COAL VALLEY	6
53958	171	COAL VALLEY	10
539 <b>59</b>	171	COAL VALLEY	. 10
53960	172	GARDEN VALLEY	6
53961	172	GARDEN VALLEY	6
53962	172	GARDEN VALLEY	6
53963	172	GARDEN VALLEY	10
53964	172	GARDEN VALLEY	10
53981	173A	RAILROAD VALLEY (SOUTHERN PART)	6
53982	173A	RAILROAD VALLEY (SOUTHERN PART)	6 .
53983 53004	173A	RAILROAD VALLEY (SOUTHERN PART)	10
53984	156	HOT CREEK VALLEY	10

#### EXHIBIT B (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

	*	
Appli- cation Basin		Proposed diversion rate,
no. no.	Basin Name	ft³/s
	RAILROAD VALLEY (NORTHERN PART) RAILROAD VALLEY (NORTHERN PART)	6 6 6 6 6 6 6 6 6 6 6 6 6 10 10 10 6 6 6 6

### EXHIBIT B (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

=======	======		
Appli- cation	Basin no.		Proposed diversion rate,
		Basin Name	ft³/s
54041	207	WHITE RIVER VALLEY	10
54042	207	WHITE RIVER VALLEY	10
54031	202	PATTERSON VALLEY	6
54032	202	PATTERSON VALLEY	6
54033	202	PATTERSON VALLEY	10
54034	202	PATTERSON VALLEY	10
	205		. 6
	205		10
54043	208	PAHROC VALLEY	. 6
54044	208	PAHROC VALLEY	6
54045	208	PAHROC VALLEY	10
54046 54047	208	PAHROC VALLEY	10
	208	PAHROC VALLEY	10
54048 54049	208	PAHROC VALLEY	10
54049 54050	208	PAHROC VALLEY	10
54050 54051	209	PAHRANAGAT VALLEY	6
54051 54052	209 209	PAHRANAGAT VALLEY	6
54052 54053	209	PAHRANAGAT VALLEY	6
54054	209	PAHRANAGAT VALLEY	10
54055	210	PAHRANAGAT VALLEY	10
54055 54056	210	COYOTE SPRINGS VALLEY	6
54056 54057	210	COYOTE SPRINGS VALLEY	6
54057	210	COYOTE SPRINGS VALLEY	6
54059	210	COYOTE SPRINGS VALLEY	10
54070	210	COYOTE SPRINGS VALLEY	10
54071	212	LAS VEGAS VALLEY	10
54072	212	LAS VEGAS VALLEY	10
54073	216	LAS VEGAS VALLEY	10
54074	217	GARNET VALLEY	10
54075	217	HIDDEN VALLEY (NORTH)	10
54075	218	CALIFORNIA WASH	10
54076	220	CALIFORNIA WASH	10
34030	220	LOWER MOAPA VALLEY	10
		Total	824

#### EXHIBIT C

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

Committed diversions, perennial yields, and available and proposed diversions for basins within the central corridor, the recharge area for the central corridor, and/or other parts of regional flow systems (Nevada Division of Water Resources, 1990; Nevada Department of Conservation and Natural Resources, 1988).

Basir No.	. Basin Name	Committed Diversions, A-ft/yr	Estimated Perennial Yield, A-ft/yr	Available Diversion, A-ft/yr	No. of LVVWD Appli- cations	Rate,	Available Diversion Less Proposed Diversion, A-ft/yr
156	HOT CREEK VALLEY	1890	5500	3610	1	7245	-3635
168	THREE LAKES VALLEY (NORTHERN PART)	0	4000		4	23183	
169A	TICKAPOO VALLEY (NORTHERN PART)	0	2600	2600	3	18836	-16236
169B	TICKAPOD VALLEY (SOUTHERN PART)	8	3400	3400	3	18836	-15436
170	PENOYER VALLEY	5670	4000	-1670	3	18836	-20506
171	COAL VALLEY	45	6000	5955	4	23183	-17228
172 173A	GARDEN VALLEY	377	6000	5623	5	27530	-21907
173A 173B	RAILROAD VALLEY (SOUTHERN PART)	5188	2800	-2388	3	15938	-18326
174	RAILROAD VALLEY (NORTHERN PART)	24575	75000	50425	18	95629	-45204
180	JAKES VALLEY	32	12000	11968	5	27530	-15562
181	CAVE VALLEY	31	14000	13969	2	11591	2378
182	DRY LAKE VALLEY	175	2500	2325	2 2 2	11591	-9266
183	DELAMAR VALLEY	120	1000	880 -	2	11591	-10711
202	LAKE VALLEY	22656	12000	-10656	5	27530	-38186
202 205	PATTERSON VALLEY	1216	4500	3284	. 4	23183	-19899
203	LOWER MEADOW VALLEY WASH	22915	5000	-17915	2	11591	-29506
208	WHITE RIVER VALLEY	21183	37000	15817	5	27530	-11713
209	PAHROC VALLEY	19	2000	1981	7	44917	-42936
	PAHRANAGAT VALLEY	6678	25000	18322	5	27530	-9208
	COYOTE SPRINGS VALLEY	0	18000	18000	5 5	27530	-9530
212	THREE LAKES VALLEY (SOUTHERN PART)	256	5000	4744	6	37672	-32928
	LAS VEGAS VALLEY	81773	25000	-56773	3	21734	-78507
	GARNET VALLEY	1651	400	-1251	1	7245	-8496
	HIDDEN VALLEY (NORTH)	18	50	32	1	7245	-7213
	CALIFORNIA WASH	510	36000	35490	2	14489	21001
. 20	LOWER MOAPA VALLEY	6906	35000	28094	ī	7245	20849
	Totals	203884	343750	139866	102	596960	-457094

#### EXHIBIT D

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

Committed diversions and recharge rates for basins within the central corridor, the recharge area for the central corridor, and/or other parts of the regional flow systems (Nevada Division of Water Resources, 1990; Harrill, et al., 1988; and Nevada Department of Conservation and Natural Resources, 1988).

			Proposed		Estimated	Recharge
		Committed			Recharge	Less Total
Basi	• •	Diversions,	Diversions,	Diversion,	Rate,	Diversion,
No	- Dasin traile	A-ft/yr	A-ft/yr		A-ft/yr	A-ft/yr
<b>T</b>		=======================================	********		:=====================================	
156	HOT COURSE HALLEN					
168	HOT CREEK VALLEY	1890	7245	9135	7000	-2135
169A	THREE LAKES VALLEY (NORTHERN PART)	0	23183	23183	2000	-21183
1698	TICKAPOO VALLEY (NORTHERN PART)	0	18836		2600	-16236
170	TICKAPOO VALLEY (SOUTHERN PART)	0	18836	18836	3400	-15436
171	PENOYER VALLEY	5670	18836	24506	4300	-20206
172	COAL VALLEY	45	23183	23228	2000	-21228
173A	GARDEN VALLEY	377	27530.	27907	10000	-17907
1738	RAILROAD VALLEY (SOUTHERN PART)	5188	15938	21126	5500	-1562 <del>6</del>
174	RAILROAD VALLEY (NORTHERN PART)	24575	95629	120204	46000	-74204
	JAKES VALLEY	32	27530	27562	17000	-10562
180 181	CAVE VALLEY	31	11591	11622	14000	2378
	DRY LAKE VALLEY	175	11591	11766	5000	-6766
182	DELAMAR VALLEY	120	11591	11711	1000	-10711
183	LAKE VALLEY	22656	27530	50186	13000	-37186
202	PATTERSON VALLEY	1216	23183	24399	6000	- 18399
205	LOWER MEADOW VALLEY WASH	22915	11591	34506	1500	-33006
207	WHITE RIVER VALLEY	21183	27530	48713	38000	-10713
208	PAHROC VALLEY	19	44917	44936	2200	-42736
209	PAHRANAGAT VALLEY	6678	27530	34208	1800	-32408
210	COYOTE SPRINGS VALLEY	Ò	27530	27530	2100	-25430
211	THREE LAKES VALLEY (SOUTHERN PART)	256	37672	37928	6000	-31928
212	LAS VEGAS VALLEY	81773	21734	103507	30000	-73507
216	GARNET VALLEY	1651	7245	8896	400	-8496
217	HIDDEN VALLEY (NORTH)	18	7245	7263	400	-6863
218	CALIFORNIA WASH	510	14489	14999	100	-14899
220	LOWER MOAPA VALLEY	6906	7245	14151	100	-14051
•						
	Totals	203884	596960	800844	221400	-579444

#### EXHIBIT E

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

The National Park Service (NPS) requests that the application be denied. Further, none of the information which follows should be construed to indicate that the NPS asks for anything less than denial of the application.

If the application is approved, the NPS requests the following.

I. The NPS does not wish to impede any legitimate ground-water development in the State of Nevada, which will not impair the water resources and water-related attributes of Death Valley National Monument (Death Valley NM) and Lake Mead National Recreation Area (Lake Mead NRA). However, available scientific literature (Eakin, 1966; Mifflin, 1988; Winograd and Thordarson, 1975; Harrill et al., 1988; Dettinger, 1989; and Essington, 1990) indicates that major ground-water flow systems transmit ground water to Death Valley NM and Lake Mead NRA.

Based on this information, the NPS, requests that the State Engineer establish the following ground-water basins as one designated ground-water basin.

<u>Basin No.</u>	Basin Name
157 158A 158B 159 160	EMIGRANT VALLEY (PAPOOSE LAKE VALLEY) YUCCA FLAT
161	INDIAN SPRINGS VALLEY
162	
168	THREE LAKES VALLEY (NORTHERN PART)
LOYA	IICKAPOO VALLEY (NORTHERN PART)
1938	TICKAPOO VALLEY (SOUTHERN PART)
173A	RAILROAD VALLEY (SOUTHERN PART)
211	THREE LAKES VALLEY (SOUTHERN PART)
225	MERCURY VALLEY
226	ROCK VALLEY
227A	FORTYMILE CANYON (JACKSON FLATS)
227B	FORTYMILE CANYON (BUCKBOARD MESA)
230	AMARGOSA DESERT
150	LITTLE FISH LAKE VALLEY
155C	LITTLE SMOKY VALLEY (SOUTHERN PART)
156	HOT CREEK VALLEY
173B	RAILROAD VALLEY (NORTHERN PART)

#### EXHIBIT E (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

<u>Basin No.</u>	Basin Name
170	PENOYER VALLEY
171	COAL VALLEY
172	GARDEN VALLEY
174	JAKES VALLEY
175	LONG VALLEY
180	CAVE VALLEY
181	DRY LAKE VALLEY
182	DELAMAR VALLEY
183	LAKE VALLEY
198	DRY VALLEY
199	ROSE VALLEY
200	EAGLE VALLEY
201	SPRING VALLEY
202	PATTERSON VALLEY
203	PANACA VALLEY
204	CLOVER VALLEY
205	LOWER MEADOW VALLEY WASH
206	KANE SPRINGS VALLEY
207	WHITE RIVER VALLEY
208	PAHROC VALLEY
209	PAHRANAGAT VALLEY
210	COYOTE SPRINGS VALLEY
212	LAS VEGAS VALLEY
215 216	BLACK MOUNTAINS AREA
216	GARNET VALLEY
217	HIDDEN VALLEY (NORTH)
210	CALIFORNIA WASH
220	MUDDY RIVER SPRINGS AREA
154	LOWER MOAPA VALLEY NEWARK VALLEY
155A	
155B	VILLET (NORTHERN TYRET)
1000	LITTLE SMOKY VALLEY (CENTRAL PART)

The designation would assist in protecting the interests of the NPS, the Las Vegas Valley Water District (LVVWD), the people of the United States, and the people of the State of Nevada. If this request is denied, the NPS requests that the State Engineer establish the abovementioned basins as separate designated ground-water basins.

#### EXHIBIT E (Continued)

Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

- II. The NPS further requests that, if the application is approved, the permit be conditioned by the following.
  - A. The LVVWD shall conduct a scientific ground-water investigation of basin-fill, volcanic, and carbonate-rock aquifers in east-central and southern Nevada to determine the hydrologic relationship between Basin 182, DELAMAR VALLEY, and the water resources of Death Valley NM and Lake Mead NRA.
  - B. The LVVWD shall establish and operate a long-term monitoring program designed to detect any potential impacts to the water resources of Death Valley NM and Lake Mead NRA, directly or indirectly incident to the appropriation sought by the application.
  - C. The LVVWD plans for monitoring and investigating ground-water resources shall be subject to the approval of the NPS and the State Engineer and shall include quality assurance protocol acceptable to the above-mentioned parties.
  - D. The LVVWD shall quarterly, or at another mutually acceptable frequency, provide all data collected and analyses completed to the NPS and the State Engineer.
  - E. The LVVWD shall cease pumping ground water, or reduce the level of pumping to the no impact level, in the event that analyses by the NPS or the State Engineer create a reasonable expectation that the senior water rights of Death Valley NM and/or Lake Mead NRA will be impaired by pumping under the permit issued under this application.
- III. The NPS reserves the right to amend this exhibit as more information becomes available.

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Protest by Owen R. Williams, on behalf of the United States Department of the Interior, National Park Service

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	<u> </u>
In the Matter of Application Number	
FILED BY Las Vegas Valley Water Dis	trict
on October 17, 1989, TO APPRO	PRIATE THE
WATERS OF Underground	
1	***************************************
Comes now FRANK	
whose post office address is 3139 CA	ASHILL BLUD REND, NEU 84509-501:
whose occupation is MENTAL HEA	Street No. or P.O. Box, City, State and Zip Code  LTH TECH STOTE OF NEU  and protests the granting
of Application Number 53,991	stad an October 17
by Las Vegas Valley Water Distr	
Printed a waters ofUnderground	typed name of applicant the
Underground or name of stream,	ake, spring or other source
nty. State of Nevada, for the following r	easons and on the following grounds, to wit:
rue appropriation of	thing water When added to the
approved appropriation	is al de streated users in 202 Bain
were exceed the and	Q and a garage
besing our of the	I recharged at safe theele of the
to be to the total	un of the magnitude will lower
	sade the quality of water from exists
***************************************	The when the season
further cause other n	Regative impacts of wer adversely aff Herse to the Public the interest
existing rights of the a	derre to the Pulli for 1 to
THEREFORE the protestant requests that	one application de
and that an order be entered for such relief as	(Denied, issued subject to prior rights, etc., as the case may be) the State Engineer deems just and proper
	<u>.</u>
	Signed In a Whales
	3/39 CASHILL BLUD FRANK 12. WHEFIELD
	3/39 CASHILL BLUD FITANK 12. WHEELER Printed or typed name, if agent  Address PENO, SEU 89509-5015
	Street No. or P.O. Box No.
	City, State and Zip Code No.
ubscribed and sworn to before me this	day of July 1990
· ·	
	Sandrull Hadlock
SANDRA A HADI OCK	State of Vers of or
NOTARY PUBLIC STATE OF NEVADA	
WASHOE COUNTY by 1	County of Willshua

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.

ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

0-2035

IN THE WATTER OF APPLICATION NUMBER	
Filed by Las Vegas Valley Water District	PROTEST
on October 17, 1989, TO APPROPRIATE THE	-
WATERS OF Underground	
Comes now GEORGE T. ROWE	
whose post office address is POST OFFICE BOX 63,	or typed name of protestant  CALIENTE NEVADA 89008-0063
Street  DOCUMENTA COMPANY	No. or P.O. Box, City, State and Zip Code
rose occupation is POSTMASTER	and protests the granting
ose occupation is <u>POSTMASTER</u> of Application Number 53991 , filed on	October 17 , 19.89
Las Vegas Valley Water District	licant to appropriate the
Printed or typed name of app waters ofUnderground	licant T. i
Underground or name of stream, lake, spring or other	situated in Lincoln
County, State of Nevada, for the following reasons and or	
THIS APPLICATION IS ONE OF 146 APPLICATE	IONS FILED BY THE LAS VEGAS VALLEY WATER
DISTRICT SEEKING A COMBINED APPROPRIATION	**************************************
SURFACE WATER PRIMARILY FOR MUNICIPAL US	
OF SICH A QUANTITY OF WATER WILL DEPRIVE	
TO PROTECT AND ENHANCE ITS ENVIRONMENT AI	
ILL UNNECESSARILY DESTROY ENVIRONMENTAL.	
CALUES THAT THE STATE HOLDS IN TRUST FOR	
-ALSO-THE APPROPRIATION OF THIS WATER FOR	
ELIMINATE ANY GROWTH OR DEVELOPMENT IN TH	•
The state of the short shift in in	ilo anda;
THEREFORE	Poni od
THEREFORE the protestant requests that the application	n be Denied (Denied, issued subject to prior rights, etc., as the case may be)
and that an order be entered for such relief as the State E	
	Deman 78
Signed	GEORGE T. ROVE
	POST OFFICE BOX 63
•	Printed or typed name, if agent
Address	CALIENTE, NEVADA 89008-0063  Street No. of P.O. Box No.
	Succession of F.O. Box 170.
	City, State and Zip Code No.
1	
Subscribed and sworn to before me this GLL day of	Cluquet 19 9.0
,	
	Mora D. Krime
	Notary Public
State of	futou
County of	Director
7/13/92 5	

\$18 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.
ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

O-2035 😅

In the Matter of Application Number 5399/
Filed by Las Vegas Valley Water District , PROTEST
ON October 17, 1989, TO APPROPRIATE THE
Waters of Underground
_ /
These Dearbana
Comes now (SCO)  Printed or typed name of protestant  Of the score of protestant
whose post office address is 205 - 206/(E) 1089043
whose occupation is, and protests the granting
of Application Number 5399/, filed on October 17 , 19.89
by Las Vegas Valley Water District to appropriate the
waters of
Underground or name of stream, lake, spring or other source County, State of Nevada, for the following reasons and on the following grounds, to wit:
This application is one of 144 aplications filed by the Las Vegas Valley Water
· · · · · · · · · · · · · · · · · · ·
District seeking a combined appropriation of some 860,000 acre feet of ground and
surface water for municipal use in the Las Vegas Valley Artesian Basin. Diversion
and export of such a quantity of water will deprive the county and area of origin of the
water needed for its environment and economic well being and will unnecessarily
destroy environmental. ecological. scenic and recreational values that the State holds
in_trust_for_all_its_citizens
Part a
THEREFORE the protestant requests that the application be Denied (Denied, issued subject to prior rights, etc., as the case may be)
and that an order be entered for such relief as the State Engineer deems just and proper.
Signed West a meelan
Wess D. McChan  Printed or typed name, if agent
Address JO - O - JO X J O S
Address Street No. or P.O. Box No.    Discharge   Printed or typed name, if agent
City, State and Zip Code No.
Subscribed and sworn to before me this 1th day of August 1990
JUDY A. ETCHART Y Notary Public
State of Work CHAIR CONTROL INCOLLING THE OF NEVADA
APPT. EXP. 1-21-94 County of Timely

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.

ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

In the Matter of Application Number 53991	1
FILED BY Las Vegas Valley Water District	
	PROTEST
October 17 19.89, TO APPROPRIATE THE	
Waters of Lincoln County	
	ı
Comes now Rosemary Maxwell	
whose post office address is P.O. Box 254 Califa	nd or typed name of protestant
Stree	No. or P.O. Box, City, State and Zip Code
whose occupation is Housewife	
of Application Number 53991 , filed on	October 17 ,19.89
I an Vocas Waller Was a state of	
Printed or typed name of app waters ofunderground	plicani to appropriate the Lincoln County
Underground or name of stream, lake, spring or other	300(56
County, State of Nevada, for the following reasons and o	
The approval of the subject application w	ill sanction and enhance the willful waste
of water allowed, if not encouraged by the	e Las Vecas Valley Water District
***************************************	
THEREFORE the protestant requests that the application	n he Denied
	(Denied, issued subject to prior rights, etc., as the case may be)
and that an order be entered for such relief as the State E	ngineer deems just and proper.
Signed	Asent or professari
	agent or protestant
	Printed or typed name, if agent P.O. Box 254
Address	Street No. or P.O. Box No.
	Caliente, NV 89008
	City, State and Zip Code No.
	1
Subscribed and sworn to before me this 25th day of.	July 1990
•	
	8/ Lona D. Krence
MONA D. FEINCE	Notary Public
Notary Public-State of Nevada County of Lincoln-Nevada State of	(p:
Comm. Exp. 9/13/92 County of.	Denien
	,

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.
ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

IN THE MATTER OF APPLICATION NUMBER53	RECEIVED
Filed by Las Vegas Valley Water Di	strict
October 17 19 89, TO APPRO	/ FROIESI .[[] 9 () [94.)
Waters of an underground source	Div. of Water Resources
	<del></del>
Comes now U.S. Department of	the Interior
whose post office address is 4765 Vegas	Printed or typed name of protestant  Drive, P.O. Box 26569, Las Vegas, Nevada 89126
	Street No. or P.O. Box, City, State and Zip Code  Agency , and protests the grantin
· · · · · · · · · · · · · · · · · · ·	, filed on October 17 , 1989
	ictto appropriate the cortyped name of applicant
Printed waters ofan_underground_source	or typed name of applicant
	situated in Lincoln
or the following	reasons and on the following grounds, to wit:
	•••••••••••••••••••••••••••••••••••••••
	EE ATTACHED SHEET
	***************************************
THEREFORE	Provide all
THEREFORE the protestant requests that	(Denied, issued subject to prior rights, etc., as the case may be)
and that an order be entered for such relief	as the State Engineer deems just and proper.
	Signed Ton Tollerin
	BEN F. COLLINS
	Printed or typed name, if agent Address 4765 Vegas Drive, P.O. Box 26569
	Street No. or P.O. Box No.  Las Vegas, Nevada 89126
•	City, State and Zip Code No.
Subscribed and sworn to before me this	20th tours Order 10 90
Sassarious and sworn to before the this	19
NOTARY PUBLIC	Carolin & Spoon
STATE OF NEVADA	State of Nevada
County of Clark CAROLYN J. SPOON	County of Clark

My Appointment Expires Oct. 9, 1990

## RECEIVEL

JUL 2 0 1990

Div. or Water Resources Branch Office - Las Veges, NV

The U.S. Department of the Interior, Bureau of Land Management protests the granting of the subject application for the following reasons and on the following grounds, to wit:

BLM is directed to implement water rights policy by: 1) "cooperating with the State Governments under the umbrella of State Law to protect water uses identified for public land management purposes", and 2) "to comply with the applicable state laws except as specifically mandated by Congress". The purposes mandated by Congress are defined by the Federal Land Management . Policy Act (FLPMA) and includes "multiple use" which is defined as "... the management of public lands and their various resource values so that they are utilized in the combination that will best meet the present and future needs of the American people". Uses associated with multiple use include but are not limited to "recreation, range, wildlife, minerals, watershed and fish...". The Wild Horse and Burro Act, FLPMA, and the National Environmental Policy Act also recognize free wild horses and burros as resource uses under BLM management responsibility. application to the State Engineer of Nevada for a water permit, on BLM land, that interferes with the capability of the agency to provide water for the afore stated uses, within the legislated responsibilities of the agency, will be protested.

The Endangered Species Act requires all Federal departments and agencies to utilize their authorities to conserve species listed by the Secretary of the Interior or Secretary of Commerce as threatened or endangered. It further requires Federal agencies to ensure that the continued existence of listed species is not jeopardized and that designated critical habitat of listed species is not destroyed or adversely modified.

Delamar Valley, in which this proposed well is located, is one of three hydrographic basins contributing ground water to Pahranagat Valley.

Pahranagat Valley is inhabited by the Bald Eagle (Haliaeetus leucocephalus) which is listed as endangered under the Endangered Species Act. Also, candidates for listing include the Longbilled curlew (Numenius americanus), White-faced ibis (Plegadis chihi), Pahranagat speckled dace (Rhinichthys osculus velifer), Pahranagat Valley montane vole (Microtus montanus fucosus), Pahranagat pebblesnail (Fluminicola merriami).

Pahranagat Valley, in turn, supplies surface and ground water flow to the Muddy River. The Moapa dace (Moapa coriacea), which has been listed as an endangered species, is endemic to the Muddy River and its spring sources. In addition, the Long-billed curlew, White-faced ibis, Moapa White River springfish (Crenichthys baileyi moapae), Moapa roundtail chub (Gila robusta ssp.), Moapa speckled dace (Rhinichthys osculus moape), Moapa pebblesnail (Fluminicola avernalis), and the Moapa warm spring riffle beetle (Stenelmis calida moapa), which have been identified as candidate species for listing, inhabit the springs

and river.

The Delamar Hydrographic Basin (No.182) has an annual ground water recharge of 6,000 acre-feet. The proposed well will extract 4,344 acre-feet per year and when added to the other well proposed, in the same basin, the total figure increases to 11,584 acre-feet, almost twice the annual recharge. This magnitude of withdrawal will not only impact Delamar Valley but, will also impact Pahranagat Valley. The latter currently recieves 6,000 acre-feet of ground water annually from Delamar Valley. Pumping at the proposed rate will result in the loss of interbasin flow thereby, adversely impacting the endangered and candidate species identified in Pahranagat Valley and ultimately the Muddy River Springs Area.

By Executive Order 11990 (Protection of Wetlands) federal agencies are directed to take action to minimize the destruction, loss, or degradation of wetlands and to preserve and enhance the natural and beneficial value of wetlands in carrying out programs affecting land use. An adverse impact on the stream, lakes and contributing springs in Pahranagat Valley, as well as, the Muddy River Springs Area could result in a reduction of associated riparian vegetation which, in turn, may impact those endangered and candidate species previously discussed.

Within this basin, there are 13 springs and 1 well, located on public land, that could possibly be impacted by the granting of this application and, the other proposed well within the Delamar Basin. These water sources contribute to the watering of 14,351 AUMs (Animal Unit Month) of cattle, 852 AUMs of deer and 648 AUMs of wild horses. Adverse impacts to these water sources could have a detrimental affect on BLM's ability to properly manage livestock grazing, wildlife habitat and wild horses. The name and location of the 14 wells and springs, currently known to be located on the public lands, are listed below.

Source Name	Location			
Dodice Name	Township	Range	Section	Subsection
Twin Springs Lamb Spring Grassy Spring Cottonwood Spring Robinson Seep Abandoned Spring Coyote Spring Blyth Spring Tunnel Spring #1 Tunnel Spring #2 Horn Creek Spring Tunnel Spring #3	5s. 5s. 5s. 5s. 5s. 6s. 6s. 6s.	62E. 62E. 64E. 65E. 65E. 65E. 65E. 65E. 65E.	34 34 2 6 18 20 20 3 20 20 20 20 21	NEW SWW SWW SEW NWW SEW NEW NEW SWW NEW SEW NWW NWW SWW NEW NEW SEW NEW SEW SEW
Stewart Well Jumbo Spring	7s. 7s.	64E.	12 24	NWM SWM- NWM SEM NWM SWM

By Executive Order 11990 (Protection of Wetlands), federal agencies are directed to take action to minimize the destruction, loss, or degradation of wetlands and to preserve and enhance the natural and beneficial value of wetlands in carrying out programs affecting land use. An adverse impact on the flow of the springs listed could result in a reduction of associated riparian vegetation.

Lowering of the ground water table is a reasonable expectation considering the volume of water planned for withdrawal. This, in turn, could result in a reduction of vegetation dependent on the subsurface water supply. The degree to which phreatophyte dependent wildlife are impacted, will depend on the extent of vegetation alteration or destruction. A reduction in species diversity and numbers, resulting from habitat degradation, can be expected. In the event of the total destruction of a vegetative community or water supply, elimination of species from the affected area is a possibility. The proposed temporary mining of ground water further increases the probability of lowering the water table, perhaps to a level from which dependent vegetation can not recover.

Currently, there is insufficient information to ascertain the actual impacts to the various resources for which the BLM has management responsibility. Neither the Nevada State Engineer nor the Las Vegas Valley Water District has prepared an analysis of all anticipated impacts associated with the Water Districts filings. Until sufficient data is gathered and analysis performed, the extent of the impacts resulting from the pumping of this well, as well as, the cumulative impacts of pumping multiple wells can not be realized.

Because of the impacts discussed above and those not identifiable at this time, due to insufficient information and analysis, the BLM protests the granting of this water appropriation.

The Bureau is currently preparing notices of Public Water Reserves (PWR) within the area of protest. These notices will be based only on the needs appropriate under PWR 107 and, will be sent to the State Engineer over the next several months prior to adjudication.

IN THE MATTER OF APPLICATION NUMBER 5399	RECEIVED
Filed by Las Vegas Valley Water Distric	· · · · · · · · · · · · · · · · · · ·
ON October 17, 1989, TO APPROPRIAT	ETHE D ABOUTCES
WATERS OF Underground	S 137 1477 11 1837/07063
Tolon M. Mada	
Comes now John M. Wadsworth	Printed or typed name of protection
whose post office address is P.O. Box 256	5; Panaca, NV; 89042 Street No. or P.O. Box, City, State and Zip Code
whose occupation is Larmer/miner	and protests the granting
of Application Number 53991, filed	onOctober 17
by Las Vegas Valley Water District	to appropriate the
waters of Underground	situated in Lincoln
County, State of Nevada, for the following reason	s and on the following grounds, to wit:
The appropriation of this water	when added to the already approved appropri-
ations and dedicated users in th	e Area will exceed the annual recharge and
safe yield. Appropriation and u	se of this magnitude will, lower the water
table and degrade the quality of	water from existing wells, cause negative
	Curther cause other negative impacts and will
	adverse to the public interest. The Panaca
• •	m deep aquifers and this appropriation would
very likely be detrimental to th	at very beneficial water source.
THEREFORE the protestant requests that the ap	plication be Denied (Oenled, issued subject to prior rights, etc., as the case may be)
and that an order be entered for such relief as the	(Denied, issued subject to prior rights, etc., as the case may be)  State Engineer deems just and proper.
Sign	ned Margaret a Wadswerth
Adóveza	Morgaret A Wadsworth  Morgaret A Worth  Printed or typed name, if agent
Add	Iress P.O. Box 256 Street No. or P.O. Box No.
	Panaca, NV 89042
•	City, State and Zip Code No.
Subscribed and sworn to before me this / U TH	Tyles an
d sworn to before me this.4	ay of
	Sul D. annated
NOTARY PUBLIC	Harl D. anty Notary Public COF NEVADS
STATE OF NEVADA County of Lincoln	A
Gail D. Armstrong  My Appointment Expires Sept. 25, 1929	nty of black by
Dec4,1993	

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.

ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

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IN THE MATTER OF A	PPLICATION NUMBER 5	3991			•	
Filed by Las Vega	s Valley Water Di	strict	DD OTTOT			
on October 17,	19.89 , TO APPRO	OPRIATE THE	PROTEST			
WATERS OF Underg		***************************************				
					· . *	
Comes now	STR	Wlos	1 1.10	7/15		
whose post office addr		Printed	or typed name of protes	tant	*/	
whose occupation is	- 1	Street P	o. or P.O. Box, Chy.		<i>A[O</i>	85000
	53 991		rtober 17		and protests ti	ne granting
				742	***************	, 19. <u>89</u>
	Valley Water Distr	TICE or typed name of appli		# # # # # # # # # # # # # # # # # # #	to appr	opriate the
waters ofUnde	erground    Underground or name of stream,			situated inLi	ncoln	
county, State of Nev	ada, for the following	reasons and on	onice			
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	nudy affel	rover of	apropus	timo	Decke	Telusies
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yell of the	busin app	rosky	Tun	I use of	0	
will lowe	n the water	1110	1 1	· O ·	**************************************	+ Manageclas
la constant	ter-	A. C. C.	rand day	rude the	e quale	to of least
of the state of th	sung weeks	Class	nega	leve hye	lrunk	gradu
Cufluxarces	fuller la	www.oll	in Me	Time esap	estran	welled.
affecteus	ing reghts .	udvorse	to the p	tive enp	rest	
THEREFORE the	protestant requests that	the application	be Denie	đ	4.	
and that an order be	entered for such relief a	s the State Eng	tincer_deems ius	ued subject to prior rights.	, etc., as the case m	ay be)
					m.	
	, 	Signed	En las	5-111h	les	:
		*****		gent or protestant		
		· · · · · · ·	Printed	or typed name, if agent	**********************	
	<u> </u>	Address //	Signe	No. or P.O. Box No.	**********************	***********
		······································	Les City 3	inte and Zip Code No.	-890	108
ì						
ubscribed and ewon		ı .				ur.
dostrioted and sworn	to before me this 12	aday of	-)41kg	19.70	$\overline{}$	
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grant and the second se	!	*****************		Notary Public	- unce	)+************************************
The same	OPIG D, PRINCE	State of	1 Jews	de		
Course.	Jubio-Etale of Nevada y of Lincoln-Nevada Exp.	County of	Denis		<del></del>	
	9/13/12		•			
	∵**. *aj					

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.
ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

Signed Agent or protestant  Printed or typed name, if agent  Address Street No. or P.O. Box No.  Street No. or P.O. Box No.  City, State and Zip Code No.  Subscribed and sworn to before me this 12Th day of Notary Public State of Newada County of Lincoin-Newada County of Lincoin-Newada		<del></del>	
WATERS OF Linderground  Comes now	IN THE MATTER OF APPLICATION NUMBER 5	399/	
ON OCTOBER 17. 1989, TO APPROPRIATE THE  WATERS OF Underground  Comes now	Filed by Las Vegas Valley Water Di	istrict	
WATERS OF Underground  Comes now Printed or typed name all protested W 990 whose post office address is PO Street New or P.O. Bas, Cip, Bute and Ele Code and protests the granting of Application Number 33 9 1 5 160 on October 17 19 89 by Las Vegras Valley Water District to appropriate the Waters of Underground Printed or typed same all applicant Situated in Lincoln Dudroground or onne of street, back writing or other tourse situated in Lincoln Dudroground or onne of street, back writing or other tourse situated in Lincoln Dudroground or onne of street, back writing or other tourse situated in Lincoln Dudroground or onne of street, back writing or other tourse situated in Lincoln Dudroground or onne of street, back writing or other tourse situated in Lincoln Dudroground or onne of street, back writing or other tourse situated in Lincoln Dudroground or onne of street, back writing or other tourse situated in Lincoln Dudroground or other back writing or other tourse situated in Lincoln Dudroground or other back writing or other tourse situated in Lincoln Dudroground or other tourse situated in Lincoln Dudroground or other tourse situated in Charles Land Budroground Dudroground State and Dudroground Dud		) PROTEST	
Comes now Printed on typed name of protestants W 9900 whose post office address is		ROPRIATE THE	
whose post office address is	WATERS OF SAMELY COURT		
whose post office address is.    State On your harm of protests the granting of Application Number   3   9   19   19   19   19   19   19			
whose post office address is.    June No. or P.O. Blac. Chy, Steam and 2 protests the granting of Application Number   3   9   19   89	Comes now	Welen Burton	
whose occupation is	whose post office address is	Printed or typed name of protestant	1 1/1 00
of Application Number. 399		1/12000	5 7008
by Las Vegas Valley Water District    Trace of State of Novada, for the following reasons and on the following grounds, to wit:		October 17	ind protests the granting
Waters of Underground Situated in Lincoln  Dunty, State of Nevada, for the following reasons and on the following grounds, to wit:  The first of Menda, for the following reasons and on the following grounds, to wit:  The first of Menda, for the following reasons and on the following grounds, to wit:  The first of Menda, for the following reasons and on the following grounds, to wit:  The first of Menda, for the following reasons and on the following grounds, to wit:  The first of Menda, for the following reasons and on the following grounds, to wit:  The first of Menda, for the following reasons and on the following grounds, to wit:  The first of Menda, for the following reasons and on the following grounds, to wit:  The first of Menda, for the following reasons and on the following grounds, to wit:  The first of Menda, for the following reasons and on the following grounds, to wit:  The first of Menda, for the following f			, 19.89
waters of Underground state of stream, late, spring or other source  Dunty, State of Nevada, for the following reasons and on the following grounds, to wit:  The Hard of Hard	Printed	CTCT  d or typed name of applicant	to appropriate the
THEREFORE the protestant requests that the application be Denied (Orned, Issued subject to prior rights, etc., as the case may be)  Agent of protestant and proper.  Signed Agent of protestant is agent Address  Printed or typed same, if agent Address  City, State and Zip Code No.  Notary Public State of Newides State of Newides County of Newides (County of Newides)  Notary Public State of Newides (County of Lincoln-Newides)  State of County of Lincoln-Newides (County of Lincoln-Newides)  State of County of Lincoln-Newides (County of Lincoln-Newides)	waters of Underground Underground or name of sizes	situated in L	incoln
THEREFORE the protestant requests that the application be Dentied (Denied, based subject to prior rights, etc., as the case may be) and that an order be entered for such relief as the State Engineer deems just and proper.  Signed. Agent of protestana.  Printed or typed name, if agent Address.  Address. Printed or typed name, if agent Address.  City, State and Zip Code No.  Notery Public State of Novaéta County of Lincoln Navada County of Linc	bunty, State of Nevada, for the following	reasons and on the following grounds, to wit-	
(Denied, issued subject to prior rights, etc., as the case may be)  Agent or protestant  Agent or protestant  Printed or typed name, if agent  Address  Street No. or P.O. Box No.  City, State and Zip Code No.  State of  Notary Public State of Novada County of Lincoln-Nevada	The APPRILLES	of the sales of and	and and
(Denied, issued subject to prior rights, etc., as the case may be)  Agent or protestant  Agent or protestant  Printed or typed name, if agent  Address  Street No. or P.O. Box No.  City, State and Zip Code No.  State of  Notary Public State of Novada County of Lincoln-Nevada	SANCTION ANT PI	1 briss of	The state of the s
(Denied, issued subject to prior rights, etc., as the case may be)  Agent or protestant  Agent or protestant  Printed or typed name, if agent  Address  Street No. or P.O. Box No.  City, State and Zip Code No.  State of  Notary Public State of Novada County of Lincoln-Nevada	interestioned	- File - Committee	MI STERM
(Denied, issued subject to prior rights, etc., as the case may be)  Agent or protestant  Agent or protestant  Printed or typed name, if agent  Address  Street No. or P.O. Box No.  City, State and Zip Code No.  State of  Notary Public State of Novada County of Lincoln-Nevada	- Hard I a see the second	J. J	ed by the
(Denied, issued subject to prior rights, etc., as the case may be)  Agent or protestant  Agent or protestant  Printed or typed name, if agent  Address  Street No. or P.O. Box No.  City, State and Zip Code No.  State of  Notary Public State of Novada County of Lincoln-Nevada	- Jan 19 19 19 19 19 19 19 19 19 19 19 19 19	Just ter Wisty	27
County of Lincoln-Nevada		· ·	***************************************
County of Lincoln-Nevada			r <del>ón</del> a manda <del>sá (spo</del> r o un adalocaço — o rema a <del>dalocacio</del> o reduca
(Dended, issued subject to prior rights, etc., as the case may be)  Agent or protestant  Agent or protestant  Printed or typed name, if agent  Address  Street No. or P.O. Box No.  City, State and Zip Code No.  Notary Public State of Newada County of Lincoln-Nevada	***************************************	***************************************	
(Dended, issued subject to prior rights, etc., as the case may be)  Agent or protestant  Agent or protestant  Printed or typed name, if agent  Address  Street No. or P.O. Box No.  City, State and Zip Code No.  Notary Public State of Newada County of Lincoln-Nevada		~~~	
(Denied, issued subject to prior rights, etc., as the case may be)  Agent or protestant  Agent or protestant  Printed or typed name, if agent  Address  Street No. or P.O. Box No.  City, State and Zip Code No.  State of  Notary Public-State of Newada County of Lincoln-Nevada			<del></del>
Signed Agent or protestant  Agent or protestant  Agent or protestant  Address Street No. or P.O. Box No.  Street No. or P.O. Box No.  City, State and Zip Code No.  Notary Public-State of Nevada County of Lincoln-Nevada	THEREFORE the protestant requests that	at the application be Denied	71-7-7-00 má amigo 5-7-7-04 corma rá co é vo vo Herra Alla.
Signed Agent or protestant  Printed or typed name, if agent  Address Street No. or P.O. Box No.  Street No. or P.O. Box No.  City, State and Zip Code No.  Subscribed and sworn to before me this 12Th day of Notary Public State of Novary Public State of	and that an order be entered for such relief	as the State Engineer deems just and proper	etc., as the case may be)
Agent or protestant  Printed or typed name, if agent  Address Street No. or P.O. Box No.  Street No. or P.O. Box No.  City, State and Zip Code No.  Notary Public State of Nevada County of Lincoln-Nevada County of Lincoln-Nevada County of Lincoln-Nevada		( C	
Address  Street No. or P.O. Box No.  City, State and Zip Code No.  Subscribed and sworn to before me this. 12Th day of 19 20  Notary Public-State of Nevada County of Lincoin-Nevada  County of Lincoin-Nevada		The second secon	
Address  Street No. or P.O. Box No.  Street No. or P.O. Box No.  Street No. or P.O. Box No.  City, State and Zip Code No.  Subscribed and sworn to before me this.  ADNA D. FRINCE  Notary Public-State of Nevada County of Lincoln-Nevada  County of Lincoln-Nevada		\$64 t - 14-54442646444444444444444444444444444444	
Street No. or P.O. Box No.  City, State and Zip Code No.  City, State and Zip Code No.  Nova D. Frince  Notary Public State of Nevada County of Lincoln-Nevada  County of Lincoln-Nevada		// -	···
induscribed and sworn to before me this 12Th day of July 1990  Nove Delice  Nove Delice  Novery Public  Novery Public  State of Nevada County of Lincoln-Nevada			7
MONA D. PRINCE Notary Public-State of Nevada County of Lincoln-Nevada		City, State and Zip Code No.	19008
MONA D. PRINCE Notary Public-State of Nevada County of Lincoln-Nevada			
MONA D. PRINCE Notary Public-State of Nevada County of Lincoln-Nevada	subscribed and sworn to before me this.	2Th day of Andrew 290	
MONA D. PRINCE Notary Public-State of Nevada County of Lincoln-Nevada		19	_
MONA D. PRINCE Notary Public-State of Nevada County of Lincoln-Nevada		M/one D. K	ene
Notary Public-State of Nevada County of Lincoln-Nevada	MONA D. PRINCE	VI	<del></del>
County of / Junaly	Notary Public-State of Nevada County of Lincoln-Nevada	2 -	**************************************
9/13/92		County of Junean	

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.

IN THE MATTER OF APPLICATION NUMBER 53991	1.
Filed by Las Vegas Valley Water District	PROTECT
ON October 17, 1989, TO APPROPRIATE THE	PROTEST
WATERS OF Underground	
Comes now MARIAN LAWRENCE	ed or typed name of protestant
whose post office address is POBOX 274  Stree	CAMENIE NV 89006
whose occupation is METAIL STORE OWNER	and protests the granting
of Application Number 5399/ filed on	
by Las Vegas Valley Water District	
water of Underground	plicantto appropriate the
Underground or name of stream, lake, spring or other	situated in Lincoln
ounty, State of Nevada, for the following reasons and of	on the following grounds, to wit:
The approved uf the se	esgect application will
sanction and enhance the	in willful waster of whater
tallowed of ward encourage	de la the Land Vica Valle
Mater Wintsuit	J gill filling
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THEREFORE the protestant requests that the application	on be Denied
	(Denied, issued subject to pring rights, and another recommendation
and that an order be entered for such relief as the State E	ngineer deems just and proper.
Signed	Marian
	Agent or protestant
. *************************************	Printed or typed same, if agent
Address	Street No. or P.O. Box No.
	Calverte NV 80006
	City, State and Zip Code No.
Subscribed and amounts be	
Subscribed and sworn to before me thisday of	Jany 19 90
<u></u>	Mona D. V
200 MONA D. 2 YORGE	Notary Public
Votory Public-State of Nevade County of Lincoln-Nevade Comm. Exp.	Liver
9/13/92 County of.	Jesusen

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.

ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

IN THE MATTER OF APPLICATION NUMBER 53991
Filed by Las Vegas Valley Water District
on October 17, 1989, TO APPROPRIATE THE
WATERS OF Underground

# PROTEST RECEIVED

JUL 11 1990

Served Res of D. Den County and Subdivision and protests the group of Application Number 5399 filed on October 17  by Las Vegas Valley Water District  Printed or typed asme of applicate waters of Underground - Basin 1/82 - /A  Underground or near of success, lake, spring or other severe  County, State of Nevada, for the following reasons and on the following grounds, to wit:  See Attached EXHIBIT "1"  THEREFORE the protestant requests that the application be October 17  THEREFORE the protestant requests that the spring or other severe (Dunded, based shipes to prior rights, orc., as the coses may be and that an order be entered for such relief as the State Engineer deems just and proper.  Signed BOARD OF LINCOLN COUNTY COMMISSIONERS	THEREFORE the protestant requests that the application be.  Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  WALKER In County Clerk  JUDY A ETCHART  JU		Div. of Water Resources  Branch Office - Las Vegas, NV
whose occupation is Government of Lincoln County and Subdivision and protests the groof Application Number 53991 filed on October 17  by Las Vegas Valley Water District  Besin f 182 - /A   County State of Nevada, for the following reasons and on the following grounds, to witt  See Attached Exhibit "1"  THEREFORE the protestant requests that the application be Deniced  County State of Nevada, for the following reasons and on the following grounds, to witt  See Attached Exhibit "1"  THEREFORE the protestant requests that the application be Deniced  County State of Nevada Exhibit "1"  Signed ROARD OF LINCOLN COUNTY COMMISSIONERS  Signed ROARD OF LINCOLN COUNTY COMMISSIONERS  County Clerk  Fine No. 19 County County County County County County County County Clerk  Pioche, Nevada 89043  CRy, Sustand 2b Code No.  State of NEVADA	OSE OCCUPATION IS GOVERNMENT OF LINCOLN COUNTY and Subdivision  Application Number 53991 State of Medical Property of Subdivision  Application Number 53991 State of Medical Property of Subdivision  Application Number 53991 State of Subdivision Subdivision  Application Subdivision Subdivision Subdivision  Application Subdivision Subdivision Subdivision  Application Subdivision Subdivision Subdivision  Application Subdivision Subdivision  Application Subdivision Subdivision  Application Subdivision Subdivision Subdivision Subdivision  Application Subdivision Subdivision Subdivision Subdivision  Application Subdivision	Comes now LINCOLN COUNTY, NE	VADA. By and Theorem
whose occupation is Government of Lincoln County and Subdivision and protests the groof Application Number    of Application Number    of Application Number    of Application Number    Denied    Subdivision    Subdivision    Denied    Subdivision    Subdivision    Denied    Subdivision    Denied	OSE OCCUPATION IN TOTAL PROPERTY OF THE PROPER	whose post office address is P.O. Box Q	Printed or typed name of protested
THEREFORE the protestant requests that the application be Common protestant price of that an order be entered for such relief as the State Engineer deems just and proper.  Signed BOARD OF LINCOLN COUNTY COMMISSIONERS COIN County Clerk  Pione or protestant requests that the application be Common to the protestant requests that the application be Common to the protestant requests that the application be Common to the entered for such relief as the State Engineer deems just and proper.  Signed BOARD OF LINCOLN COUNTY COMMISSIONERS COUNTY	Las Vegas Valley Mater District  Fined of Upda anno of application  Inderground — Bas An # 18 Z - /A situated in Lincoln  Interpretation Newada, for the following reasons and on the following grounds, to wite  See Attached Exhibit "1"  THEREFORE the protestant requests that the application be Obmical boxed evaluation prior algorithms, are, in the case may be Obmical boxed evaluation prior algorithms, are, in the case may be obtained to the complete of the protestant and proper.  Signed ROARD OF LINCOLN COUNTY COMMISSIONERS  WICE CHARLES F.O. Box 90  Address F.O. Box 90  Address F.O. Box 90  Address F.O. Box 90  Fined on typed same, Haguest  Fined on application by the complete on t	whose occupation to Government	Street Ne. or P.O. Bes. Chy. Street
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County. State of Nevada, for the following reasons and on the following grounds, to wit:  See Attached EXHIBIT "1"  THEREFORE the protestant requests that the application be. Denied (Danied, hoost replets, not., in the case may be) and that an order be entered for such relief as the State Engineer deceme just and proper.  EST:  Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  Agent of presented the protestant with the application of the case of the	THEREFORE the protestant requests that the application be.  Denied  (Denied denies of such relief as the State Engineer deems just and proper.  T:  Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  Address P.O. Box 90  Address P.O. Box 90  Street No. or P.O. Box 90  Tibed and sworn to before me this Aday of July 19.99.  JUDY A. ETCHART NOTARY PRINCE STREET REWIND  PRINCE OF MEXICAL PRINCE OF	by Las vegas Valley Water Di	strict 19.
THEREFORE the protestant requests that the application be Denied Chromate hand subject to prior rights, set, as the case may be and that an order be entered for such relief as the State Engineer decems just and proper.  EST:  Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  Agent of protestant KEITE WHIPPLE, Chairm  Address P.O. Box 90  Street No. of P.O. Box 90  Street No. of P.O. Box No.  Pioche, Nevada 89043  Chy, Bines and Zip Code No.  Aday of July 19.90.  JUDY A. ETCHART Notary Public  Notary Pager. State of REVADA  Notary Pager. State of REVADA  State of NEVADA  Netary Public	THEREFORE the protestant requests that the application be Denied (Denied, Luced public to prior rights, etc., as the case may be) that an order be entered for such relief as the State Engineer deems just and proper.  T:  Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  WALKER  Address P.O. Box 90  Short New 200 as protestant  WALKER  Address P.O. Box 90  Short New 200 as 99043  Chy, State and 22b Code No.  Tibed and sworn to before me this A day of July 19.90.  JUDY A ETCHART  NORW PRINCE STREED READON AND AND AND AND THE PLANTAGE AND	finder and a second sec	182 - /A
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THEREFORE the protestant requests that the application be Denied  (Denied, bound subject to prior rights, ore, or the cose may be)  Indian an order be entered for such relief as the State Engineer deems just and proper.  IEST:  Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  April of Private or typed name, if against KEITH WHIPPLE, Chairm  Fine Walker  Address P.O. Box 90  From No. or P.O. Box No.  Private No. or P.O. Box No.  State of NEVADA	THEREFORE the protestant requests that the application be Demied (Double, bound publicate prior eligible, ore., as the cost may kep that an order be entered for such relief as the State Engineer decems just and proper.  T: Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  Append of protestant  KEITH WHIPPLE, Chairman  Prior to typed name, if agent  Address P.O. Box 90  Street No. or P.O. Box No.  Picche, Nevada 89043  City, State and Zip Code No.  Tibed and sworn to before me this D. day of July 19.90.  JUDY A. ETCHART  NOTARY PORCES. STATE OF NEVADA  NOTARY PORCES. STATE OF NEVADA  State of NEVADA  NOTARY PORCES. WHATE OF NEVADA  State of NEVADA  NOTARY PORCES. WHATE OF NEVADA  NOTARY PORCES. WHATE OF NEVADA	See Attached EXHIBIT	"1"
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Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  Character with the processes of proce	Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  Chural E wing of KEITH WHIPPLE, Chairman  WICE CHAIR W. Princed or typed come, Wagent  NE WALKER  In County Clerk  Pioche, Nevada 89043  City, State and Zip Code No.  Princed and sworn to before me this day of July 19 90.  JUDY A. ETCHART  NOTARY PUBLIC: STATE OF NEVADA  PRINCIPAL OFFICE PUNCHINGOL BY  PRINCIPAL OFFICE PUNCHINGOL BY  PRINCIPAL OFFICE PUNCHINGOL BY  State of NEVADA		
Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  Character with the processes of proce	Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  Chural & Willer Chairman  Will Walker  In County Clerk  Pioche, Nevada 89043  City, State and Zip Code No.  Princed and sworn to before me this Aday of July 19 90.  JUDY A. ETCHART  NOTARY PUBLIC: STATE OF NEVADA  PRINCIPAL OFFICE INCOUNCY OF NEVADA  State of NEVADA  State of NEVADA		
Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  County Clerk  Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  County Clerk  Street No. or P.O. Boar No.  Princed or typed comm. Weapont  Address P.O. Box 90  Street No. or P.O. Boar No.  Pioche, Nevada 89043  City, Store and Zip Code No.  Storet No. or P.O. Boar No.  Pioche and aworn to before me this Aday of July 19 90.  JUDY A. ETCHART  NOTARY PUBLIC: STATE OF NEVADA  PRINCIPAL OF FIGE INCOLN CO. NV  PRINCIPAL OF FIGE INCOLN CO. NV  State of NEVADA  State of NEVADA	Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  Chural & Willer Chairman  Will Walker  In County Clerk  Pioche, Nevada 89043  City, State and Zip Code No.  Princed and sworn to before me this Aday of July 19 90.  JUDY A. ETCHART  NOTARY PUBLIC: STATE OF NEVADA  PRINCIPAL OFFICE INCOUNCY OF NEVADA  State of NEVADA  State of NEVADA	***************************************	
Address To Box 90  Street No. or P.O. Box No.  Pioche, Nevada 89043  Chy, Sime and Zb Code No.  Subscribed and sworn to before me this day of July 19.90.  JUDY A. ETCHART  NOTARY PUBLIC: STATE OF NEVADA  PRINCIPAL OFFICE: UNCOLNED ON NO.	TUDY A. ETCHART NOTARY PUBLIC: STATE OF NEVADA PRINCIPAL OFFICE: LINCOIN CO. NO.  State of NEVADA  State of NEVADA  Principal office: Lincoin co. No.  State of NEVADA  State of NEVADA  Principal office: Lincoin co. No.  State of NEVADA  Principal office: Lincoin co. No.  State of NEVADA	CEST:	Signed BOARD OF LINCOLN COUNTY COMMISSIONERS  Company Frontiers  KEITH WHIPPLE, Chairman
JUDY A. ETCHART NOTARY PUBLIC: STATE OF NEVADA PRINCIPAL OFFICE: LINCOLN COLON NEVADA  NEVADA  NEVADA  NEVADA  NEVADA  PRINCIPAL OFFICE: LINCOLN COLON NEVADA  NEVADA  NEVADA  Retary Fablic  State of NEVADA	ribed and sworn to before me this day of July 19.90.  JUDY A. ETCHART NOTARY PUBLIC: STATE OF NEVADA PRINCIPAL OFFICE: LINCOIN CO. NV	RINE WALKER	- Address Dox 90
Discribed and sworn to before me this day of July 19.90.  JUDY A. ETCHART  NOTARY PUBLIC - STATE OF NEVADA  PRINCIPAL OFFICE - LINCOLN CO - NV	ribed and sworn to before me this day of July 19.90.  JUDY A. ETCHART  NOTARY PUBLIC: STATE OF NEVADA  PRINCIPAL OFFICE: LINCOIN CO. NV	County Clerk	
JUDY A. ETCHART  NOTARY PUBLIC - STATE OF NEVADA  PRINCIPAL OFFICE - LINCOLN CO - NV	JUDY A. ETCHART  NOTARY PUBLIC - STATE OF NEVADA  PRINCIPAL OFFICE - LINCOIN CO - NV		
JUDY A. ETCHART  NOTARY PUBLIC - STATE OF NEVADA  PRINCIPAL OFFICE - LINCOLN CO - NV	JUDY A. ETCHART  NOTARY PUBLIC - STATE OF NEVADA  PRINCIPAL OFFICE - LINCOIN CO - NV		
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		PRINCIPAL OFFICE - LINCOLN CO NV	County of LINCOLN
	WY-Man-repay.		

SIO FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.

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- 1. This application should be denied on the basis that rights to the use of the public waters of the State of Nevada are restricted to so much water as may be necessary, when reasonably and economically used for beneficial purposes. Las Vegas Valley Water District has allowed the water to be used for waste and purposes other than reasonable and economic beneficial use.
- 2. The Statutes of Nevada provide the beneficial use shall be the basis, the measure and the limit of the right to the use of water in this State. Actual consumption is the measure of beneficial use and water that is wasted is not put to such use. This application should be denied based on the long history of applicant allowing water to be wasted.
- 3. This application should be denied because the State Engineer is restricted to allowing only that quantity of water to a user which shall reasonably be required for the beneficial use to be served. The State Engineer must, therefore, make his determinations of quantity based on all water now available to applicant and requested in all applications of record.
- 4. This application should be denied unless the applicant can clearly and with scientific certainty demonstrate that vested rights shall not be impaired or affected.
- 5. This application is one of 147 applications filed by the Las Vegas Valley Water District seeking a combined appropriation of some 860,000 acre feet of ground and surface water for municipal use in the Las Vegas Valley Artesian Basin. Diversion and export of such a quantity of water will deprive the county and area of origin of the water needed for its environment and economic well being and will unnecessarily destroy environmental, ecological, scenic and recreational values that the State hold in trust for all its citizens.
- 6. The granting or approving of the subject application in the absence of comprehensive planning, including but not limited to environmental impact considerations, socioeconomic impact considerations, and a water resource plan consideration for the general Las Vegas Valley area such as has been required by the Public Service Commission of private purveyors of water, is detrimental to the public welfare and interest.
- 7. The granting or approving of the subject application in the absence of comprehensive water resource development planning, including but not limited to, environmental impacts, socioeconomic impacts, and long term impacts on the water resource, threatens to prove detrimental to the public interest.

- 8. The granting or approval of the above-referenced application would conflict with or tend to impair all existing rights the source of which is the deep carbonate aquifier of eastern Nevada because it would exceed the safe yield of the subject aquifier, lower the pressure within the aquifier which accounts for hundred of seeps, springs and artesion water sources such as Panaca Big springs, Crystal Springs, etc. (Special mention of these dwo does not limit the reference), would lower the static water level and would sanction water mining.
- 9. Granting or approval of the above-referenced Application would be detrimental to the public interest in that it individually and cumulatively with other applications of the water exploration project would:
- (1) Likely jeopardize the continued existence of endangered and threatened species recognized under the Endangered Species Act and realted state statutes;
- (2) Prevent or interfere with the conservation of those threatened or endangered species;
  - (3) Take or harm those endangered species; and
- (4) Interfere with the purpose for which the Federal lands are managed under Federal statutes including, but not limited to, the Federal Land Use Policy Act of 1976.
- 10. The approval of the subject application will sanction and enhance the willful waste of water allowed, if not encouraged, by the Las Vegas Valley Water District.
- 11. The subject Application seeks to develop the water resources of, and transport water across, lands of the United States under the jurisdiction of the United States Department of Interior, Bureau of Land Management. This application should be denied because the Las Vegas Valley Water District has not obtained right-or-way for water development on public lands and the transportation of water from the proposed point of diversion to the service area of the Las Vegas Valley Water District in Clark County.
- 12. The Application should be denied because it individually and cumulatively will increase the waste of water and lack of effective conservation efforts in the Las Vegas Valley Water District service area.
- 13. The Las Vegas Valley Water District lacks the financial capability of transporting water under the subject permit as a prerequisite to putting the water to beneficial use and accordingly, the subject Application should be denied.

- 14. The above-referenced Application should be denied beacuse the application fails to include the statutorily required:
  - (1) Description of proposed works;
  - (2) The estimated cost of such works;
- (3) The estimated time required to construct the works and the estimated time required to complete the application of water to beneficial use; and
- (4) The approximate number of persons to be served and the approximate future requirement.
- 15. The subject application should be denied because it individually and cumulatively with other Applications will exceed the safe yield of the 18/1A Basin thereby adversely affecting phreatophytes and create air contamination and air pollution in violation of State and Federal Statutes, including but not limited to, the Clean Air Act and Chapter 445 of the Nevada Revised Statutes.
- l6. The application cannot be granted because the applicant has failed to provide information to enable the State Engineer to grant the public interest properly. This application and related applications associated with this major withdrawal out in the basin transfer project cannot properly be determined without an independent, formal and publicly-reviewable assessment of:
  - a. cumulative impacts of the proposed extractions;
- b. mitigation measures that will reduce the impacts of the proposed extractions;
- c. alternatives to the proposed extractions, including but not limited to, the alternatives of no extraction and mandatory and effective water conservation in the LVVWD service area.
- 17. The undersigned additionally incorporates by reference as though fully set forth herein and adopts as its own, each and every other protest to the aforementioned applications filed pursuant to NRS 533.365.
- 18. Inasmuch as a water extraction and trans basin conveyance project of this magnitude has never been considered by the State Engineer, it is therefore impossible to anticipate all potential adverse affects without further study. Accordingly, the protestant reserves the right to amend the subject protest to include such issues as they develop as a result of further study.

#### ADDENDUM 1

By ruling #3398 dated November 20, 1986, In the Matter of Additionally Applications 49333 and 49334, by ruling #3173 dated April 15, 1985 In the Matter of Application 48075, and similar rulings to which reference is made, the Nevada State Engineer adopted as policy that applicants furnish data concerning water conservation measures and amount of water to be recycled. Unless the same is demanded of and furnished by the applicant herein an unconstitutional unequal application of law and public policy will have occurred. This application should be denied for failure to furnish the information or at least held in abeyance until the information is furnished.

#### EXHIBIT "1A"

This application is in Lake Valley Nevada. By decision dated September 10, 1981, the State Engineer denied applications No. 38520, 38525, 38569, 40363 and 43592. The Decision in part

- ground water reservoir in Lake Vally is 13,000 acre-feet.
- . . . The total amount of water currently appropriated in Lake Valley is 24,173 acrefeet per year.
- Pumpage in excess of 12,000 acre-feet will eventually result in storage depletion from principal aquifiers, substantial water level declines, and land subsidence.

Should additional water be allowed for appropriation . . . (it would) detrimentally affect prior ground water rights, the State Engineer is required by law to order withdrawals (of water) be restricted to conform with priority rights.

In the Matter of Application Number 53991	
Filed By Las Vegas Valley Water District	PROTEST
ON October 17 19.89, TO APPROPRIATE THE	INOTEST
WATERS OF Underground	
	•
	or typed name of protestant
	No. or P.O. Box, City, State and Zip Code
whose occupation is Political Subdivision, State	of California, and protests the granting
of Application Number 53991, filed on 00	19.89
by Las Vegas Valley Water District Printed or typed name of app	licant to appropriate the
waters of underground	situated in Lincoln
County, State of Nevada, for the following reasons and or	
See attached.	***************************************
	**************************************
	,
1441 A444 A444 A444 A444 A444 A444 A444	
THEREFORE the protestant requests that the applicatio	n beDenied
and that an order be entered for such relief as the State E	(Denied, issued subject to prior rights, etc., as the case may be)
	6 10
Signed	Agent or protestant
Gregory	L. James, Inyo County Counsel (Agent)  Printed or typed name, if agent
Address	P.O. Box M Street No. or P.O. Box No.
Independ	dence, California 93526
	City, State and Zip Code No.
· · · · · · · · · · · · · · · · · ·	
Subscribed and sworn to before me this 10th day of	July 19.90.
· Val	e 10 (Oemor
State of	Notary Public California
DALE J. O'CONNOR	Inyo
INYO COUNTY	
My Commission Exp. Jan 22, 1993	

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.
ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

2454 (Revised 6-80)

O-2035

#### REASONS AND GROUNDS FOR PROTEST BY INYO COUNTY

The County of Inyo, State of California, protests the granting of the above referenced Application for the following reasons and on the following grounds:

If this Application is granted, the appropriation and diversion under this permit will eventually reduce or eliminate the flows in springs, and the supplies of groundwater, in several areas and communities (including Death Valley National Monument) in eastern Inyo County which are dependent upon recharge from regional carbonate rock aquifers.

The diversion proposed by this Application is located in the carbonate rock province of Nevada. The carbonate rock province is typified by complex interbasin regional flow systems that include both basin-fill and carbonate rock aquifers, or both, from basin to another. Groundwater flow system boundaries, and thus interbasin groundwater flows, are poorly defined for most of the carbonate rock province (Harrill, et al., 1988). The proposed diversion is expected to reduce interbasin flows and modify the direction of groundwater movement in adjoining hydraulically connected basins, reduce or eliminate spring and stream flows, and cause land subsidence and fissuring.

A central corridor of the carbonate rock aquifers in southern Nevada (Dettinger, 1989) occurs within the carbonate rock province. The corridor consists of a north-south "block" of thick, laterally continuous carbonate rocks and probably contains the principal conduits for regional groundwater flow from east-central Nevada into southern Nevada, with flow ultimately discharging through regional springs in Inyo County, California, including Death Valley, Death Valley Junction, Shoshone, Tecopa, Tecopa Hot Springs, China Ranch, and Charleston View. (Dettinger, 1989, p.13).

Parts of east-central Nevada are a recharge area for the central corridor of the carbonate rock and valley fill aquifers in southern Nevada (Dettinger, 1989, Mifflin, 1988). The appropriation and diversion proposed by this application is located within a basin which may be part of the central corridor, the recharge area for the central corridor, and/or other parts of the regional flow system which discharge groundwater within the boundaries of Inyo County, California (Harrill, et al.). Thus, the diversion is expected to reduce the flow from springs and reduce the availability of groundwater in Inyo County, California, including Death Valley

National Monument, Death Valley Junction, Shoshone, Tecopa, Tecopa Hot Springs, China Ranch, Charleston View, and other areas.

Some zones within central the corridor are transmissive, and act as large-scale drains which ultimately conduct much of the flow that discharges at large regional springs such as those in Inyo County, California. It has been hypothesized (Dettinger, 1989, p.16) that the transmissive zones may stay highly transmissive only if large volumes of water continue to flow through them. openings in the rocks gradually fill with minerals and the rocks resolidify. The appropriation and diversion proposed by this application is expected to reduce the volume and velocity of groundwater flowing through the drains which could begin the process of closing connected fractures and solution cavities, substantially impairing the capacity of the aquifer to transmit water.

Available scientific literature indicates that a large area of east-central and southern Nevada is part of a regional groundwater flow system that discharges through springs and maintains groundwater supplies in Inyo County, California. This literature indicates that springs and groundwater supplies in eastern Inyo County, California are hydrologically connected to a regional carbonate rock aquifer that can be affected by groundwater pumping (an upgradient groundwater diversion).

Exhibit A lists eighty-one (81) applications by the Las Vegas Valley Water District that may impair the water resources of eastern Inyo County, California. (Essington, 1990). These 81 applications are located within or west of the White River Flow System and north of the Pahranagat Shear Zone--an area identified in available scientific literature as critical to the groundwater resources of eastern Inyo County, California. Accordingly, Inyo County has protested each of these 81 applications.

- 2. Upon information and belief protestant asserts that there is not sufficient unappropriated groundwater in host water basin to provide the water sought in the above-referenced Application and all other pending applications involving the utilization of surface and groundwater from the basin.
- 3. The appropriation of this water when added to the already approved appropriations and existing uses and water rights in host water basin will exceed the annual recharge and safe yield of the basin. Appropriation and use of this magnitude

will lower the water table, degrade the quality of water from existing wells, cause negative hydraulic gradient influences, and threaten springs, seeps and phreatophytes which provide water and habitat that are critical to the survival of wildlife and grazing livestock.

- 4. The granting or approval of the above-referenced Application would unreasonably lower the water table and sanction water mining, which is contrary to Nevada law and public policy.
- Vegas Valley Water District seeking a combined appropriation of some 864,195 acre feet of ground and surface water primarily for municipal use in Clark County. Diversion and export of such a quantity of water will deprive many areas of the water needed to protect and enhance their environment and well being, and the diversion will unnecessarily destroy environmental, ecological, scenic, and recreational values.
- 6. The granting or approval of the above-referenced Application in the absence of comprehensive water resource development planning, including, but not limited to, environmental impact considerations, socioeconomic impact considerations, cost/benefit considerations, water resource evaluation by an independent entity, and a water resource plan for the Las Vegas Valley Water District (such as is required by the Nevada Public Service Commission of water purveyors) is detrimental to the public welfare and interest.
- 7. The granting or approval of the above-referenced Application would be detrimental to the public interest in that it, individually and together with other applications of the water importation project, would:
  - Likely jeopardize the continued existence of endangered and threatened species recognized under the federal Endangered Species Act and related state statutes;
  - b. Prevent or interfere with the conservation of those threatened or endangered species;
  - Take or harm those endangered or threatened species; and
  - d. Interfere with the purpose for which the federal lands are managed under federal statutes including, but not limited to, the Federal Land Use Policy Act of 1976.
- 8. The granting or approval of the above-referenced Application will sanction and encourage the willful waste of water that

has been allowed, if not encouraged, by the Las Vegas Valley Water District. Said waste of water is contrary to Nevada law and public policy.

- of, and transport water across, lands of the United States under the jurisdiction of the United States Department of Interior. This Application should be denied because the Las Vegas Valley water District has not obtained or demonstrated that it can obtain the necessary legal interest (right-of-way) on said lands to extract, develop, and transport water from the point of diversion to the point of use in the Las Vegas Valley Water District service area. Therefore, the Las Vegas Valley Water District cannot show that the water will ever be placed in beneficial use.
- 10. The Application should be denied because it individually and cumulatively with other applications of the water importation project will perpetuate and may increase the inefficient use of water in the Las Vegas Valley Water District service area.
- 11. The Las Vegas Valley Water District lacks the financial capability for developing and transporting water under the subject permit, which is a prerequisite to putting the water to beneficial use, and accordingly, the subject Application should be denied.
- 12. The above-referenced Application should be denied because it fails to adequately include the statutorily required information, it wit:
  - Description of proposed works;
  - b. The estimated cost of such works;
  - c. The estimated time required to construct the works and the estimated time required to complete the application of water to beneficial use;
  - d. The approximate number of persons to be served and the future requirement; and
  - e. The dimensions and location of proposed water storage reservoirs, the capacity of the proposed reservoirs, and a description of the lands to be submerged by impounded waters.
- 13. The subject Application should be denied because it individually and cumulatively with other applications of the

proposed project will exceed the safe yield of host water basin, thereby adversely affecting phreatophytes and creating air contamination and air pollution in violation of State and Federal Statutes, including, but not limited to, the Clean Air Act and Chapter 445 of the Nevada Revised Statutes.

- 14. The Application cannot be granted because the applicant has failed to provide information to enable the State Engineer to properly safeguard the public interest. The adverse effects of this Application and related applications associated with the proposed water appropriation and transportation project (largest appropriation of groundwater in the history of the State of Nevada) cannot properly be evaluated without an independent, formal, and publicly reviewable assessment of the following:
  - a. The water resources of the proposed area of diversion and the cumulative effects of the proposed diversions;
  - b. Mitigation measures that will reduce the impacts of the proposed extraction; and
  - c. Alternatives to the proposed extraction, including, but not limited to, the alternatives of no extraction and aggressive implementation of all proven and cost effective water demand management strategies.
- 15. The above-referenced Application should be denied because the applicant has failed to provide the protestant relevant information regarding this Application and other applications which comprise the proposed importation project (works) as required by N.R.S. 533.363. The failure to provide such relevant information denies protestant due process of law under Chapter 533, N.R.S., in that said relevant information may provide protestant with further meaningful grounds of protest, and that protestant may be forever barred from submitting such further grounds of protest because the protest period may end before applicant provides such required information. The failure of applicant to provide such information denies protestant the meaningful opportunity to submit protests to this Application and other applications associated with the water importation project as allowed by Chapter 533, N.R.S.
- 16. The subject Application should be denied because the population projections upon which the water demand projections are based are unrealistic and ignore numerous constraints to growth, including traffic congestion, increased costs of infrastructure and services, degraded air quality, protection

of rare and endangered species, etc.

- 17. The subject Application should be denied because previous and current conservation programs instituted by the Las Vegas Valley Water District are inefficient efforts that are unlikely to achieve substantial water savings. Public policy and public interest considerations should preclude the negative environmental and socioeconomic consequences of the proposed transfers when the potential water importer has failed to make a good faith effort to efficiently use currently available supplies.
- 18. The subject Application should be denied because the enormous costs of the project will result in water rate increases of such a magnitude that demand will be substantially reduced, thereby rendering the water transfer unnecessary.
- 19. The granting or approval of the above-referenced Application would be detrimental to the public interest and not made in good faith since it would allow the Las Vegas Valley Water District to lock up vital water resources for possible use sometime in the distant future beyond current planning horizons.
- 20. The subject Application should be denied because current and developing trends in housing, landscaping, national plumbing fixture standards, and demographic patterns all suggest that the simplistic water demand forecasts upon which the proposed transfers are based substantially overstate future water demand needs.
- The subject Application should be denied because the current 21. per capita water consumption rate for the Las Vegas Valley Water District is double that οf similarly situated southwestern municipalities. This suggests enormous potential for most cost effective supply alternatives, including demand management and effluent re-use. These alternatives have not been seriously considered by the Las Vegas Valley Water District.
- 22. The above-referenced Application should be denied because the State Engineer has previously denied other applications for water from the host water basin, said applications having been prior in time to the instant Application, and those applications associated with the water importation project. The grounds for denial (e.g., applicant does not own or control the land on which the water is to be diverted, approval would be detrimental to the public welfare, etc.) of the prior applications should apply equally to the instant

Applicant and provide grounds to deny the instant Application.

- 23. Las Vegas Valley Water District public statements and written material indicate that approximately 61 percent of the water rights sought by the District (via the 146 applications) are to be temporary water rights. But, the applications (146) state the water is to be used on a permanent basis. Therefore, the subject applications, including the above-referenced Application, should be denied because the public has been denied relevant information and due process.
- 24. Inasmuch as a water extraction and transbasin conveyance project of this magnitude has never been considered by the State Engineer, it is therefore impossible to anticipate all potential adverse effects without further information and study. Accordingly, the protestant reserves the right to amend the subject protest to include such issues as they may develop as a result of further information and study.
- 25. The undersigned additionally incorporates by reference as though fully set forth herein and adopts as its own, each and every other protest to this Application and/or any application filed that is associated with the water importation project and filed pursuant to N.R.S. 533.365.

# EXHIBIT A

Permit	Map Sheet	Permit	Map Sheet
53947	Caliente	53988	Lund
53948	Caliente	53990	Caliente
53949	Caliente	53991	Caliente
53950	Las Vegas	53992	Caliente
53951	Las Vegas	53998	Ely
53952	Caliente	55399	Ely
53953	Caliente	54000	Ely
53954	Caliente	54001	Ely
53955	Caliente	54002	Ely
53 <b>Ø5</b> Æ	Lund	54038	Lund
53957	Caliente	54039	Lund
53958	Lund	54040	Lund
53959	Caliente	54041	Lund
53960	Caliente	54042	Lund
53961	Lund	54043	Lund
53962	Lund	54044	Lund
53963	Caliente	54045	Caliente
53964	Lund	54046	Caliente
53965	Lund	54047	Caliente
53966	Lund	54048	Lund
53967	Lund	54049	Caliente
53968	Lund	54050	Caliente
53969	Lund	54051	Caliente
53970	Lund	54052	Caliente
53971	Lund	54053	Caliente
53972	Lund	54054	Caliente
53973	Lund	54060	Las Vegas
53974	Lund	54061	Las Vegas
53975	Lund	54062	Las Vegas
53976	Lund	54063	Las Vegas
53977	Lund	54064	Las Vegas
53978	Lund	54065	Las Vegas
53979	Lund	54066	Las Vegas
53980	Lund	54067	El y
53981	Goldfield	54068	Las Vegas
53982	Goldfield	54069	Las Vegas
53983 53984	Goldfield	54070	Las Vegas
	Goldfield	54071	Las Vegas
53985 53986	Lund	54072	Las Vegas
•	Lund	54106	Las Vegas
53987	Lund		

# REFERENCES CITED

Dettinger, M. D., 1989. Distribution of carbonate rock aquifers in southern Nevada and the potential for their development, Summary of Findings, 1985-88: Program for the Study and Testing of Carbonate Rock Aquifers in Eastern and Southern Nevada Summary Report No. 1, 37 p.

Essington, G. M., 1990. Death Valley National Monument, Outside Threats, Regional Hydrology Issues. National Park Service, 38 p.

Harrill, J. R., Gates, J. S., and Thomas, J. M., 1988. Major groundwater flow systems in the Great Basin region of Nevada, Utah, and adjacent states: U. S. Geological Survey Hydrologic Investigations Atlas HA-694-C, 2 sheets.

Mifflin, M. D., 1988. Region 5, Great Basin, in Back, W., Rosenhein, J. S., and Seaber, P. R., eds. Hydrogeology. The Geology of North America, v. 0-2, Geological Society of America, Boulder, CO.

# IN THE OFFICE ( THE STATE ENGINEER OF TI STATE OF NEVADA

IN THE MATTER OF APPLICATION NUMBER 9.2.1.1.1	1
FILED BY LAS VEGAS VAIK YWATER DISTRICT	PROTEST
ON OCT. 17 1989, TO APPROPRIATE THE	
WATERS OF LINCOLN COUNTY	
	. 1
41 1 0 1	
Comes now Glenn Van Rockel	tled or typed name of protestant
whose post office address is P.O. Box 281	set No. or P.O. Box. City. State and Zin Code
whose occupation is DIRECTOR OF COMMUNIT	Y DELIE OPMENT, and protests the granting
of Application Number 53991 , filed on	Oct. 17 1089
by THE LAS VEGAS VALLEY WATER ?	STIZICT to appropriate the
Printed or typed name of a waters of	ner source situated in LINCOLN COUNTY
County, State of Nevada, for the following reasons and	
•	THE ABOUE . REFERENCED Application
	PUBLIC INTEREST AND NOT MADE
	> ALLOW THE LAS VEGAS VALLEY WATER
DISTRICT TO LOCK UP VITAL WATE	ER RESOURCES FOR POSSIBLE USE
SOMETIME IN THE DISTANT	TUTURE BEYOND CURRENT
PLANNING HORIZONS.	***************************************
THEREFORE the protestant requests that the applica	(Denied, issued subject to prior rights, etc., as the case may be)
and that an order be entered for such relief as the State	Engineer deems just and proper.
<u>.</u>	BL(QR,DU)
Signed	Agent or protestant
Adm Annidossour 44 a 44	Printed or typed name, if agent
Address	Street No. or P.O. Box No.
***************************************	CALLENTE, UEV. 84008  City, State and Zip Code No.
Subscribed and sworn to before me this. 10th day o	· July 1090
occorded and sworn to before the this	
***************************************	Wona W Krine
State of.	Notary Public  Leva Gu
County of Lincoln-Nevada County of Lincoln-Nevada County of County	Serialni
9/13/92	

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.
ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

2454 (Revised 5-80)

O-2035 ·

# IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF NEVADA

IN THE MATTER OF APPLICATION NUMBER ..

FILED BY Las Vegas Valley Water District

on October 17 19.89 , to Appro	OPRIATE THE
Waters of Underground	
WATERS OF	
Comes now Pahranagat Valley Io.	oint Services Board. Ms. Verna Hansen. Board Chairwoms
Comes now Landauagac	int Services Board: Ms. Verna Hansen, Board Chairwoma
	Box 450, Alamo, Nevada 89001 Street No. or P.O. Box, City, State and Zip Code
<del>-</del>	and protests the granting
of Application Number 53991	, filed on October 17 , 19.89
Las Vegas Valley Water Distric	.Ctto appropriate the
Printed	d or typed name of applicant
waters of Underground Underground or name of stream	m, lake, spring or other source
County, State of Nevada, for the following	g reasons and on the following grounds, to wit:
	- SEE ATTACHED -
***************************************	
***************************************	
•	
	***************************************
THEREFORE the protestant requests th	hat the application be <u>Denied</u> (Denied, Issued subject to prior rights, etc., as the case may be)
, e	
and that an order be entered for such relief	ef as the State Engineer deems just and proper:
	Jurisa Lansen
	Signed Agent or protestant
	Ms. Verna Hansen, Board Chairwoman Printed or typed name, if agent
	Address Post Office Box 450 Street No. of P.O. Box No.
	Alamo, Nevada 89001
•	City, State and Zip Code No.
•	
	11 th 10 80
Subscribed and sworn to before me this	day of
	Va an Clan
	Notary Public
JoAnn Clay	State of // Waks
Notary Public-State of Nevada Lincoln County	County of Jucoh
My appointment expires Jun. 14, 1992	
***************************************	

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.

ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

Draft
Protest of Las Vegas Valley
Water District Application Number 53991
to Appropriate the
Ground Waters of Delmar Valley
Hydrographic Area #182

# Prepared for:

The Pahranagat Valley Joint Services Board Post Office Box 450 Alamo, Nevada 89001

# Prepared by:

Sweetwater Consulting Services Post Office Box 223 Carson City, Nevada 89702

# Introduction

On behalf of the Pahranagat Valley Joint Services Board (PVJSB) the following protest has been prepared regarding the Las Vegas Valley Water District (LVVWD) application to appropriate the waters of the Delmar Valley Hydrographic Area #182 (LVVWD Application Number 53991, filed October 17, 1989). PVJSB is deeply concerned with the LVVWD applications, the potential for impacts to Pahranagat Valley ground and surface waters, area residents, agricultural operations and the associated socioeconomic and environmental impacts such appropriations would potentially create.

Pahranagat Valley is home to approximately 1,100 residents, including the Town of Alamo and numerous agricultural operations. PVJSB is comprised of the following Pahranagat Valley service providers: the Pahranagat Valley Volunteer Fire Department Board; the Pahranagat Valley Ambulance Board; the Alamo Town Board; the Pahranagat Valley Power District; the Town of Alamo Water and Sewer Board; and the Lincoln County/Pahranagat Valley Deputy Sheriff's Department. The PVJSB service area includes a resident population approximately persons, 1,100 commercial and industrial businesses, the Alamo elementary, middle and high facilities, community park and recreation facilities and numerous farms and ranches located throughout the Pahranagat Valley. Though currently small in size compared to many rural Nevada service area, growth is occurring throughout the valley. Community growth is being driven by the tremendous growth of Las Vegas Valley. residents are seeking a more rural and higher quality of life than is available in the Las Vegas Valley. Additionally, the potential for even greater growth in the Pahranagat Valley is very good with the proposed industrial development projects in Coyote Springs Valley immediately south of town, the proposed siting of the Nuclear Waste Repository by the Department of Energy at Yucca Mountain, and proposed Department of Defense projects on the Nellis Bombing Range and the Nevada Test Site.

The entire White River drainage, including Pahranagat Valley, provides unique outdoor recreation resources to area residents and visitors alike. Additionally, the White River drainage provides wildlife habitat to numerous wildlife species including several threatened and endangered wildlife species. Located within the Pahranagat Valley is a U.S. Fish and Wildlife Refuge, the "Pahranagat National Wildlife Refuge," and numerous Bureau of Land Management and State of Nevada recreation areas. Las Vegas Valley residents are the primary visitors to the area, as water based recreation is a very limited resource in southern Nevada. Outdoor recreationalists contribute to the area economy through retail purchases and overnight accommodations.

Water resources is truly the key to the future of the Pahranagat Valley, Lincoln County and all of rural southern Nevada. Adequate water resources is necessary to provide for future growth, the agricultural operations of the valley, and area recreation and wildlife resources.

This protest attempts to identify the numerous potential impacts associated with this LVVWD application; the need for additional information and data regarding Pahranagat Valley water resources; and the need for conducting a comprehensive environmental impact analysis, including project development alternatives, before any decision is made regarding the application. A full and complete public hearing process must also be conducted and incorporated into the decision process.

#### Potential Impacts

The following potential impacts have been identified which may be associated with the LVVWD Application Number 53991 to appropriate the waters of the Delmar Valley. The need for a comprehensive third-party environmental impact analysis is paramount. Additional site-specific research and data gathering activities may also be required before an adequate impact analysis can be conducted.

#### Water Resources

Pahranagat Valley within falls the basin and range physiography, as does most of Nevada. Basin and range topography greatly effects precipitation patterns, water flows and water locations. Not only are surface flows affected but also groundwater flows are influenced by the basin and range topography (Eakin, 1963). This is particularly significant in the Pahranagat Valley where surface spring discharges total approximately 25,000 acre feet per year (AFY) (NDWR, 1990), and annual recharge from precipitation may be as high as 1,800 AFY (Eakin, 1963), or as low as 1,000 AFY (NDWR, 1990). This situation is complicated by the fact that the Nevada Division of Water Resources's (NDWR) own data is both conflicting and outdated (NDWR, 1990). A detailed research analysis is necessary to determine if the water resources of the Pahranagat Valley are part of a much larger groundwater regime. At least one study has shown that the majority of the spring water discharge originates in adjacent valleys (Eakin, 1963).

Within Pahranagat Valley unique water resources including Ash, Hiko and Crystal Springs support diverse ecosystems. These warm water springs support vegetation and fishery resources including federally listed Threatened and Endangered species (see wildlife section). Considerable effort on a national level has been expended to protect and preserve these unique water resources. The potential for adverse impacts to Ash, Hiko and Crystal Springs and their surrounding ecosystems from LVVWD proposed pumpage and the water exportation project must be fully analyzed. Drawdown from pumping could possibly forever change these fragile ecosystems.

The location of LVVWD Application Number 53991 is located near Pahranagat Valley and PVJSB wells serving the Town of Alamo. Should LVVWD be allowed to pump groundwater in this location drawdown may occur in PVJSB wells, in other Pahranagat Valley wells and Delmar Valley. This could result in wells having to be drilled

deeper or even moved to maintain production. Water quality could be degredated. All of this would cause considerable hardship and additional expense to the PVJSB.

Groundwater supply and demand for Pahranagat Valley is contained in Table 1. As can be seen, an excess of 17,526 AFY over perennial yield currently exists on record (NDWR, 1988). However the accuracy of this estimate is questionable. Accurate pumping and flow records have not been maintained and/or are not available throughout the Pahranagat Valley. Wells exist, which are being pumped, but are not on record with NDWR. Accurate consumptions records are also not available within the Pahranagat Valley. Extensive riparian vegetation throughout the Pahranagat Valley consumes large amounts of water but little is known about actual consumption amounts. The need for a comprehensive analysis of the existing conditions of Pahranagat Valley water resources is paramount before any decision is made regarding the LVVWD applications.

# Table 1

Groundwater Supply and Demand Pahranagat Valley, Nevada Basin Number 209

Estimated Groundwater Perennial Yield:	25,000 AFY
Estimated Recharge:	1,000 AFY
Granted or Applied Water Rights:	7,477 AFY
Excess or Shortage:	+17,526 AFY

Source: Nevada Division of Water Resources, 1988.

Current water uses in the Pahranagat Valley are primarily municipal, ranching, agricultural, wildlife and culinary. Granting LVVWD Application Number 53991 would preclude increased usage by any of the current users over existing rights, as LVVWD is filing on all unappropriated water. There would be no water available for expanding existing uses, or for new users. Community growth in Alamo could be severely curtailed or made prohibitively expensive. Numerous impacts are possible which must be addressed and analyzed prior to any action on the LVVWD applications.

#### Vegetation Resources

Potential impacts to the vegetation resources of the Pahranagat Valley include surface disruption from construction, and interference with the hydrologic cycle. A lowered water table would have tremendous impacts on the vegetative resources of the valley. The valley provides important wildlife habitat including the only greenbelt and wetlands within the entire region. Loss of this vegetation would result in critical loss of diversity of both plant and wildlife species. The aesthetics of the region are greatly enhanced by the existing diversity of the ecosystems. Loss of vegetation would also impact the outdoor recreation resources currently enjoyed by so many Las Vegas Valley residents. This could also chain react into economic impacts to the local economy.

#### Wildlife Resources

Pahranagat Valley provides habitat for a wide variety of wildlife including mule deer, jackrabbits, cottontails, rodents, coyotes, mountain lions, badgers and grey foxes. The Pahranagat National Wildlife Refuge, comprised of approximately 5,380 acres of marshes, open water and native grass meadows provide critical habitat for a variety of birds and mammals. Waterfowl, characterized by pintails, teal, mallards and redheads, and shorebirds, including great blue herons and egrets, are found throughout the refuge and the Pahranagat Valley (USF&WS, 1990).

Several fisheries also exist in the valley comprised of rainbow trout, white crappie, large mouth bass, speckled dace and channel catfish. The region's most popular fisheries are located within the Pahranagat Valley and are enjoyed by thousands of visitors annually.

Several threatened and endangered (T&E) animal species are known to occur in the valley. These include the desert tortoise - Gopherus agassizi, bald eagle - Halialetus leucocephalus, and the banded gila monster - Heloderma suspectum. Protected aquatic species include the Pahranagat roundtail chub - Gila robusta jordam and the White River springfish - Crenichthys baileyi grandis (USF&WS, 1990).

The LVVWD Application Number 53991 has the potential to significantly impact wildlife resources including T&E species and protected aquatic species in the Pahranagat Valley. A full and comprehensive analysis is necessary to identify impacts to wildlife species before action is taken by NDWR.

# Visual/Aesthetic Resources

Should this LVVWD application be approved, significant impacts to the Pahranagat Valley visual and aesthetic resources is possible. A "de-greening" of the valley would forever change the scenic beauty of the area. Construction improvements (pipelines, pump stations, etc.) would degrade the existing views both from the community of Alamo and U.S. Highway 93. Visual/aesthetic resources must be included and analyzed before action is taken by NDWR.

#### Recreation Resources

The Pahranagat Valley provides diverse outdoor recreation opportunities to southern Nevada residents and visitors alike. Outdoor recreation participants also contribute significantly to the local economy through gasoline and retail purchases and overnight accommodations. Outdoor recreation visitor days are climbing steadily throughout the Pahranagat Valley, and Lincoln County as a whole. There is a potential to degrade the water related recreation resources of the Pahranagat Valley should LVVWD be allowed to appropriate said waters. The potential to impact existing wetlands, open waters, and marsh areas would directly impact hunting, fishing, bird watching, and other existing outdoor recreation opportunities. This would chain react and impact the local economy in lost revenues, depressing the fragile Lincoln County economic base.

# Alamo/Pahranagat Valley Region

Several impacts to the Alamo/Pahranagat Valley Region have been identified in previous discussions, (i.e. vegetation, wildlife, Other impacts to the existing environment will water, etc.). greatly affect the future of the valley. A detailed analysis is necessary regarding impacts from exportation of water from Delmar Valley and the Alamo/Pahranagat Valley. For example, the Town of Alamo water system currently faces severe deficiencies in both water quantity and quality. It is currently unknown if there is sufficient water resources to correct the system and to provide for future growth. Proposed "water mining" of the Pahranagat Valley by the LVVWD could severely impact the existing community water system both now and in the future. If all available water is exported from the valley, sufficient water resources to support local development and growth from mining or industrial uses may be Population reductions and corresponding economic could also result should the existing agricultural employment base, the mainstay of the local economy, be reduced by LVVWD pumpage. The loss of the Pahranagat Valley's water resources could forever impact the ability to attract future industrial development to the area and place the valley in a downward economic spiral.

Of an equal concern is the unique identity and character of the Pahranagat Valley which has developed since the area's early settlement. A major disruption of the existing community cohesiveness, which could result in extensive social problems, is possible should LVVWD be successful in its water exportation plan. The family-oriented structure of the Mormon Church, the years of stability and basic rural philosophies of families working together could all unravel. The loss of agricultural based employment due to environmental degradation, dislocation and out-migration could forever change the valley's quality of life, stability and rural

character. Social impacts could be greater than the environmental impacts associated with LVVWD's proposed exportation project. A full analysis must be conducted before action is taken by NDWR.

#### Conclusion

The LVVWD Application Number 53991 to appropriate the waters of the Delmar Valley Hydrographic Area #182 has the potential to impact numerous unique natural resources, the socioeconomics of the region, the residents of the Pahranagat Valley and the Town of Alamo, listed T&E flora and fauna and the future of the entire region. This is a major water importation project, comparable to Los Angeles Water and Power's water importation project from Owen's Valley and Mono Basin during the early 1900's. The ramifications of approval of LVVWD Application Number 53991 would result in by far the greatest irreversible and irretrievable commitment of resources of any project ever proposed in the State of Nevada. A project of this magnitude requires extensive analysis based upon accurate and current data. Poor information and lack of data raise serious concerns regarding Pahranagat Valley water resources, the specifics of the proposed LVVWD water importation project, associated development impacts, and monetary costs to the rate payers. A fair and impartial decision regarding this LVVWD application and the issues is not possible without further study and detailed analysis.

Therefore, we respectfully request, on behalf of the Pahranagat Valley Joint Services Board, that LVVWD Application Number 53991 be denied pending the completion of the following items and request that any future decision be based upon an unbiased, third-party impact analysis. We request that:

- \* NDWR commissions a comprehensive research analysis to fully identify the existing state of Delmar Valley Hydrographic Area #182 and Pahranagat Valley Hydrographic Area #209 water resources including: water quantity surface and ground; basin inflow and outflow; annual recharge; perennial yield; water rights; water consumption and pumpage; and water quality surface and ground.
- \* LVVWD and NDWR conduct a third-party comprehensive environmental impact analysis, including project development alternatives, based upon the most current data and information available.
- \* The fragile ecosystems of Ash, Hiko and Crystal Springs, which support federally listed T&E species, be fully analyzed regarding potential impacts from LVVWD's Application Number 53991 and proposed water exportation project.

- \* Full public hearings be conducted, including hearings to be held in the Town of Alamo to provide for public input and comment on said LVVWD application.
- \* Because of the magnitude of potential impacts associated with the LVVWD application and water importation project, impacts to the social and economic environments of the Pahranagat Valley be fully analyzed.
- \* Full disclosure of the proposed project's development and maintenance cost be made.
- \* Under NDWR guidance, LVVWD establishes an open and clear mechanism for public information regarding the water importation project and the associated impacts of the proposed project.

The Pahranagat Valley Joint Services Board appreciates the opportunity to protest said LVVWD Application Number 53991 per Nevada Revised Statutes and reserves the right to amend said protest at some point in the future should new data and information become available.

# LITERATURE CITED

(Eakin, 1963)
Eakin, Thomas E. 1963. Groundwater Resources, Reconnaissance
Series - Report 21 - Groundwater Appraisal of Pahranagat and Pahroc Valleys - Lincoln and Nye Counties, Nevada. USGS.

(NDWR, 1990)

Nevada Division of Water Resources. 1990. Personal Communication.

(USF&WS, 1990)

U.S. Fish and Wildlife Service. 1990. Pahranagat National Wildlife Refuge. Personal Communication.

# IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF NEVADA

In the Matter of Application Number 53991 ,	
Filed by Las Vegas Valley Water District.	PROTEST
ONQctober_171989, TO APPROPRIATE THE	
WATERS OF Underground	
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The Theorem of Allers Makes and	Course Provide Mr. Bahanta Haca Roard Mambas
Prince	Sewer Board: Ms. Roberta Hess. Board Member
Stre	Alamo, Nevada 89001 et No. or P.O. Box, City, State and Zip Code
	, and protests the granting
	tober 17 , 1989
by Las Vegas Valley Water District Printed or typed name of a	policant to appropriate the
waters of <u>Underground</u> Underground or name of stream, lake, spring or other	situated in Lincoln
County, State of Nevada, for the following reasons and	
- SEE A	ATTACHED
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•	
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***************************************	
THEREFORE the protestant requests that the application	ion be Denied (Denied, issued subject to prior rights, etc., as the case may be)
and that an order be entered for such relief as the State	
	Q1 + 1/
Signed	Agent or protestant
AAMMAAAAAAAAA	Ms. Roberta Hess, Board Member Printed or typed name, if agent
Address	Post Office Box 376 Street No. or P.O. Box No.
***************************************	Alamo, Nevada 89001 City, State and Zip Code No.
<b>/</b>	
Subscribed and sworn to before me thisday of	July 19 90
<u></u>	O Com Clary Public
JoAnn Clay State of	1) wadu
Notary Public-State of Nevada County o	, Jincolv
My appointment expires Jun. 14, 1992	

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\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.

ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

Draft
Protest of Las Vegas Valley
Water District Application Number 53991
to Appropriate the
Ground Waters of Delmar Valley
Hydrographic Area #182

# Prepared for:

The Town of Alamo Water and Sewer Board Post Office Box 376 Alamo, Nevada 89001

Prepared by:

Sweetwater Consulting Services Post Office Box 223 Carson City, Nevada 89702

## Introduction

On behalf of the Town of Alamo Water and Sewer Board (AWSB) the following protest has been prepared regarding the Las Vegas Valley Water District (LVVWD) application to appropriate the waters of the Delmar Valley Hydrographic Area #209 (LVVWD Application Number 53991, filed October 17, 1989). AWSB is deeply concerned with the LVVWD applications, the potential for impacts to Pahranagat Valley ground and surface waters, area residents, agricultural operations and the associated socioeconomic and environmental impacts such appropriations would potentially create.

Pahranagat Valley is home to approximately 1,100 residents, including the Town of Alamo and numerous agricultural operations. AWSB administers water system and sewer disposal services to the residents of Alamo. The Alamo Water and Sewer District (AWSD) service area includes a resident population of approximately 525 persons, commercial and industrial businesses, the elementary, middle and high school facilities, community park and recreation facilities and several outlying farms and ranches. Though currently small in size compared to many rural Nevada communities, growth is occurring throughout the area. Community growth is being driven by the tremendous growth of Las Vegas Valley. New residents are seeking a more rural and higher quality of life than is available in the Las Vegas Valley. Additionally, the potential for even greater growth in the Pahranagat Valley is very good with the proposed industrial development projects in Coyote Springs Valley immediately south of town, the proposed siting of the Nuclear Waste Repository by the Department of Energy at Yucca Mountain, and proposed Department of Defense projects on the Nellis Bombing Range and the Nevada Test Site.

The entire White River drainage, including Pahranagat Valley, provides unique outdoor recreation resources to area residents and visitors alike. Additionally, the White River drainage provides wildlife habitat to numerous wildlife species including several threatened and endangered wildlife species. Located within the Pahranagat Valley is a U.S. Fish and Wildlife Refuge, the "Pahranagat National Wildlife Refuge," and numerous Bureau of Land Management and State of Nevada recreation areas. Las Vegas Valley residents are the primary visitors to the area, as water based recreation is a very limited resource in southern Nevada. Outdoor recreationalists contribute to the area economy through retail purchases and overnight accommodations.

Water resources is truly the key to the future of the Pahranagat Valley, Lincoln County and all of rural southern Nevada. Adequate water resources is necessary to provide for future growth, the agricultural operations of the valley, and area recreation and wildlife resources.

This protest attempts to identify the numerous potential impacts associated with this LVVWD application; the need for additional information and data regarding Pahranagat Valley water resources;

and the need for conducting a comprehensive environmental impact analysis, including project development alternatives, before any decision is made regarding the application. A full and complete public hearing process must also be conducted and incorporated into the decision process.

#### Potential Impacts

The following potential impacts have been identified which may be associated with the LVVWD Application Number 53991 to appropriate the waters of the Delmar Valley. The need for a comprehensive third-party environmental impact analysis is paramount. Additional site-specific research and data gathering activities may also be required before an adequate impact analysis can be conducted.

#### Water Resources

Pahranagat Valley falls within the basin physiography, as does most of Nevada. Basin and range topography greatly effects precipitation patterns, water flows and water Not only are surface flows affected but also groundwater flows are influenced by the basin and range topography (Eakin, 1963). This is particularly significant in the Pahranagat Valley where surface spring discharges total approximately 25,000 acre feet per year (AFY) (NDWR, 1990), and annual recharge from precipitation may be as high as 1,800 AFY (Eakin, 1963), or as low as 1,000 AFY (NDWR, 1990). This situation is complicated by the fact that the Nevada Division of Water Resources's (NDWR) own data is both conflicting and outdated (NDWR, 1990). A detailed research analysis is necessary to determine if the water resources of the Pahranagat Valley are part of a much larger groundwater regime. At least one study has shown that the majority of the spring water discharge originates in adjacent valleys (Eakin, 1963).

Within Pahranagat Valley unique water resources including Ash, Hiko and Crystal Springs support diverse ecosystems. These warm water springs support vegetation and fishery resources including federally listed Threatened and Endangered species (see wildlife section). Considerable effort on a national level has been expended to protect and preserve these unique water resources. The potential for adverse impacts to Ash, Hiko and Crystal Springs and their surrounding ecosystems from LVVWD proposed pumpage and the water exportation project must be fully analyzed. Drawdown from pumping could possibly forever change these fragile ecosystems.

The location of LVVWD Application Number 53991 is located near Pahranagat Valley and ASWD wells serving the Town of Alamo. Should LVVWD be allowed to pump groundwater in this location drawdown may occur in ASWD wells, in other Pahranagat Valley wells and in Delmar Valley. This could result in wells having to be drilled deeper or even moved to maintain production. Water quality could be degredated. All of this would cause considerable hardship and additional expense to the Town of Alamo.

Groundwater supply and demand for Pahranagat Valley is contained in Table 1. As can be seen, an excess of 17,526 AFY over perennial yield currently exists on record (NDWR, 1988). However the accuracy of this estimate is questionable. Accurate pumping and flow records have not been maintained and/or are not available throughout the Pahranagat Valley. Wells exist, which are being pumped, but are not on record with NDWR. Accurate consumptions records are also not available within the AWSD. Extensive riparian vegetation throughout the Pahranagat Valley consumes large amounts of water but little is known about actual consumption amounts. need for a comprehensive analysis of the existing conditions of Pahranagat Valley water resources is paramount before any decision is made regarding the LVVWD applications.

#### Table 1

Groundwater Supply and Demand Pahranagat Valley, Nevada Basin Number 209

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Estimated Recharge:	1,000 AFY
Granted or Applied Water Rights:	7,477 AFY
Excess or Shortage:	+17,526 AFY

Source: Nevada Division of Water Resources, 1988.

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Several fisheries also exist in the valley comprised of rainbow trout, white crappie, large mouth bass, speckled dace and channel catfish. The region's most popular fisheries are located within the Pahranagat Valley and are enjoyed by thousands of visitors annually.

Several threatened and endangered (T&E) animal species are known to occur in the valley. These include the desert tortoise - Gopherus agassizi, bald eagle - Halialetus leucocephalus, and the banded gila monster - Heloderma suspectum. Protected aquatic species include the Pahranagat roundtail chub -Gila robusta jordam and the White River springfish - Crenichthys baileyi grandis (USF&WS, 1990).

The LVVWD Application Number 53991 has the potential to significantly impact wildlife resources including T&E species and protected aquatic species in the Pahranagat Valley. A full and comprehensive analysis is necessary to identify impacts to wildlife species before action is taken by NDWR.

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Should this LVVWD application be approved, significant impacts to the Pahranagat Valley visual and aesthetic resources is possible. A "de-greening" of the valley would forever change the scenic beauty of the area. Construction improvements (pipelines, pump stations, etc.) would degrade the existing views both from the community of Alamo and U.S. Highway 93. Visual/aesthetic resources must be included and analyzed before action is taken by NDWR.

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Several impacts to the Alamo/Pahranagat Valley Region have been identified in previous discussions, (i.e. vegetation, wildlife, water, etc.). Other impacts to the existing environment will greatly affect the future of the valley. A detailed analysis is necessary regarding impacts from exportation of water from Delmar Valley and the Alamo/Pahranagat Valley. For example, the Town of Alamo water system currently faces severe deficiencies in both water quantity and quality. It is currently unknown if there is sufficient water resources to correct the system and to provide for future growth. Proposed "water mining" of the Pahranagat Valley by the LVVWD could severely impact the existing community water system both now and in the future. If all available water is exported from the valley, sufficient water resources to support local development and growth from mining or industrial uses may be unavailable. Population reductions and corresponding economic impacts could also result should the existing agricultural employment base, the mainstay of the local economy, be reduced by LVVWD pumpage. The loss of the Pahranagat Valley's water resources could forever impact the ability to attract future industrial development to the area and place the valley in a downward economic spiral.

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#### Conclusion

The LVVWD Application Number 53991 to appropriate the waters of the Delmar Valley Hydrographic Area #182 has the potential to impact

numerous unique natural resources, the socioeconomics of the region, the residents of the Pahranagat Valley and the Town of Alamo, listed T&E flora and fauna and the future of the entire region. This is a major water importation project, comparable to Los Angeles Water and Power's water importation project from Owen's Valley and Mono Basin during the early 1900's. The ramifications of approval of LVVWD Application Number 53991 would result in by far the greatest irreversible and irretrievable commitment of resources of any project ever proposed in the State of Nevada. A project of this magnitude requires extensive analysis based upon accurate and current data. Poor information and lack of data raise serious concerns regarding Pahranagat Valley water resources, the specifics of the proposed LVVWD water importation project, associated development impacts, and monetary costs to the rate payers. A fair and impartial decision regarding this LVVWD application and the issues is not possible without further study and detailed analysis.

Therefore, we respectfully request, on behalf of the Alamo Water and Sewer Board, that LVVWD Application Number 53991 be denied pending the completion of the following items and request that any future decision be based upon an unbiased, third-party impact analysis. We request that:

- \* NDWR commissions a comprehensive research analysis to fully identify the existing state of Delmar Valley Hydrographic Area #182 Pahranagat Valley Hydrographic Area #209 water resources including: water quantity surface and ground; basin inflow and outflow; annual recharge; perennial yield; water rights; water consumption and pumpage; and water quality surface and ground.
- \* LVVWD and NDWR conduct a third-party comprehensive environmental impact analysis, including project development alternatives, based upon the most current data and information available.
- \* The fragile ecosystems of Ash, Hiko and Crystal Springs, which support federally listed T&E species, be fully analyzed regarding potential impacts from LVVWD's Application Number 53991 and proposed water exportation project.
- \* Full public hearings be conducted, including hearings to be held in the Town of Alamo to provide for public input and comment on said LVVWD application.
- \* Because of the magnitude of potential impacts associated with the LVVWD application and water importation project, impacts to the social and economic environments of the Pahranagat Valley be fully analyzed.
- \* Full disclosure of the proposed project's development and

maintenance cost be made.

Under NDWR guidance, LVVWD establishes an open and clear mechanism for public information regarding the water importation project and the associated impacts of the proposed project.

The Alamo Water and Sewer Board appreciates the opportunity to protest said LVVWD Application Number 53991 per Nevada Revised Statutes and reserves the right to amend said protest at some point in the future should new data and information become available.

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(NDWR, 1990) Nevada Division of Water Resources. 1990. Personal Communication.

(USF&WS, 1990)

U.S. Fish and Wildlife Service. 1990. Pahranagat National Wildlife Refuge. Personal Communication.

# IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF NEVADA

In the Matter of Application Number 53991, Filed by the Las Vegas Valley Water District on October 17, 1989, to appropriate the waters of Lincoln County.

PROTEST

Comes now THE CITY OF CALIENTE whose post office address is POST OFFICE BOX 158, CALIENTE, NEVADA 89008 whose occupation is MUNICIPALITY/WATER PURVEYOR, and protest the granting of Application Number 53991, filed on October 17, 1989 by the Las Vegas Valley Water District to appropriate the waters of underground situated in Lincoln County, State of Nevada, for the following reasons and on the following grounds, to wit:

(See Attachment)

THEREFORE the protestant requests that the application be DENIED and that an order be entered for such relief as the State Engineer deems just and proper.

Signed

George T// Rowe, Mayor

Address

P.O. Box 158

Caliente, Nevada 89008

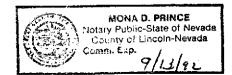
Subscribed and sworn to before me this

9th

day of

July , 1990.

State of Nevada County of Lincoln



LIST OF REASONS TO PROTEST THE LAS VEGAS VALLEY WATER DISTRICT APPLICATIONS TO APPROPRIATE GROUND AND SURFACE WATER FROM CENTRAL, EASTERN AND SOUTHERN NEVADA

- 1. This Application is one of 145 applications filed by the Las Vegas Valley Water District seeking to appropriate 804,195 acre feet of ground water primarily for municipal use within Clark County. Diversion and export of such quantity of water will: lower the static water level in Delamar Valley Basin; adversely affect the quality of remaining ground water; and further threaten springs, seeps and phreatophytes which provide water and habitat critical to the survival of wildlife and grazing livestock.
- 2. The appropriation of this water when added to the already approved appropriations and existing uses in the Delamar Valley Basin will exceed the annual recharge and safe yield of the basin. Appropriation and use of this magnitude will: lower the static water level and degrade the quality of water from existing wells and cause negative hydraulic gradient influences as well as other negative impacts.
- 3. This Application is one of 146 applications filed by the Las Vegas Valley Water District seeking a combined appropriation of some 864,195 acre feet of ground and surface water primarily for municipal use in Clark County. Diversion and export of such a quantity of water will deprive the area of origin of the water needed to protect and enhance its environment and economic well being, and the diversion will unnecessarily destroy environmental, ecological, scenic and recreational values that the State holds in trust for all its citizens.
- 4. The granting or approving of the subject Application in the absence of comprehensive planning, including but not limited to environmental impact considerations, cost considerations, socioeconomic impact considerations, and a water resource plan (such as is required by the Public Service Commission of private purveyors of water) for the Las Vegas Valley Water District Service area is detrimental to the public welfare and interest.
- 5. The granting or approval of the above-referenced Application would conflict with or tend to impair existing rights in the Delamar Valley Basin because if granted it would exceed the safe yield of the subject basin and unreasonably lower the static water level and sanction water mining.
- 6. The granting or approval of the above referenced Application would be detrimental to the public interest in that it, individually and together with the other applications of the water importation project, would:
  - (a) Likely jeopardize the continued existence of endangered

and threatened species recognized under the federal Endangered Species Act and related state statutes;

- (b) Prevent or interfere with the conservation of those threatened or endangered species;
- (c) Take or harm those endangered or threatened species; and
- (d) Interfere with the purpose for which the federal lands are managed under federal statutes including, but not limited to, the Federal Land Use Policy Act of 1976.
- 7. The approval of the subject application will sanction and encourage the willful waste of water that has been allowed, if not encouraged, by the Las Vegas Valley Water District.
- 8. The subject Application seeks to develop and transport water resources on and across lands of the United States under the jurisdiction of the United States Department of Interior, Bureau of Land Management. This application should be denied because the Las Vegas Valley Water District has not obtained necessary legal interest (e.g., right-of-way) in the federal land such that the applicant may extract, develop and transport water resources from the proposed point of diversion to the proposed place of use.
- 9. The Application should be denied because it individually and cumulatively with other applications of the water importation project will perpetuate and may increase the inefficient use of water in the Las Vegas Valley Water District service area and frustrate efforts at water demand management in the Las Vegas Valley Water District service area.
- 10. The Las Vegas Valley Water District lacks the financial capability for developing and transporting water under the subject permit which is a prerequisite to putting the water to beneficial use.
- 11. The above-referenced Application should be denied because it fails to include the statutorily required:
  - (a) Description of the place of use;
  - (b) Description of the proposed works;
  - (c) The estimated cost of such works; and
  - (d) The estimated time required to put the subject water to beneficial use.
- 12. The subject Application should be denied because it individually and cumulatively with other applications of the proposed project will exceed the safe yield of the Delamar Valley Basin thereby adversely affecting phreatophytes and creating air contamination and air pollution in violation of State and Federal

Statutes, including but not limited to, the Clean Air Act and Chapter 445 of the Nevada Revised Statutes.

- 13. The Application cannot be granted because the applicant has failed to provide information to enable the State Engineer to safeguard the public interest properly. The adverse effects of this Application and related applications associated with the proposed water appropriation and transportation project (largest appropriation of ground water in the history of the State of Nevada) cannot properly be evaluated without an independent, formal and publicly-reviewable assessment of:
  - (a) cumulative impacts of the proposed extraction;
  - (b) mitigation measures that will reduce the impacts of the proposed extraction;
  - (c) alternatives to the proposed extraction, including but not limited to, the alternatives of no extraction and aggressive implementation of all proven and cost-effective water demand management strategies.
- 14. The subject application should be denied because the population projects upon which the water demand projections are based are unrealistic and ignore numerous constraints to growth, including traffic congestion, increased costs of infrastructure and services, degraded air quality, etc.
- 15. The subject application should be denied because previous and current conservation programs instituted by the Las Vegas Valley Water District are ineffective public-relations oriented efforts that are unlikely to achieve substantial water savings. Public policy and public interest considerations should preclude the negative environmental and socio-economic consequences of the proposed transfers on areas of origin when the potential water importer has failed to make a good-faith effort to efficiently use currently available supplies.
- 16. The subject Application should be denied because the enormous costs of the project will result in water rate increases of such magnitude that demand will be substantially reduced, thereby rendering the water transfer unnecessary.
- 17. The granting or approval of the above-referenced Application would be detrimental tot he public interest and not made in good faith since it would allow the Las Vegas Valley Water District to lock up vital water resources for possible use sometime in the distant future beyond current planning horizons.
- 18. The subject Application should be denied because current and developing trends in housing, landscaping, national plumbing fixture standards and demographic patterns all suggest that the simplistic water demand forecasts upon which the proposed transfers are based substantially overstate future water demand needs.

- 19. The subject application should be denied because the current per capita water consumption rate for the Las Vegas Valley Water District is double that of similarly situated southwestern municipalities. This suggests enormous potential for more cost-effective supply alternatives, including demand management and effluent re-use. These alternatives have not been seriously considered by the Las Vegas Valley Water District.
- 20. Inasmuch as a water extraction and transbasin conveyance project of this magnitude has never been considered by the State Engineer, it is therefore impossible to anticipate all potential adverse affects without further information and study. Accordingly, the protestant reserves the right to amend the subject protest to include such issues as they may develop as a result of further information and study.
- 21. The undersigned additionally incorporates by reference as though fully set forth herein and adopts as its own, each and every other protest to the subject application filed pursuant to NRS 533.365.

# IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF NEVADA

In the Matter of Application Number53	3991		DEC	
FRED BY LAS Vegas Valley Water	District PRO	OTEST	REC	EIVED
ON October 17, 1989, TO APPROPRI	RIATE THE		JUL	<b>0</b> 5 1990
WATERS OF 182-1A, DELAMAR VAL. I	LIN NV			iter Resources
	•		praticit Otho	s∷ree ⊼eðlee∛ lVA
Comes now The Unincorporat	ed Town of P	ahrumn		
	Printed or typed	name of protestant	20043	1 <del>0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </del>
whose post office address is P.O. Box 31	Street No. or P.(	O. Box, Cky, State and	Zip Code	·
whomeness with holds the trust		•		•
of Application Number 53991	filed on Octobe	r 17.		, 19_89
by Las Vegas Valley Water Di	STRICT typed name of applicant		to	ppropriate the
waters of BASIN NO. 182-1A, Delama Underground or name of stream, in	r Valley	situa	ted in LINCOLN C	OUNTY
County, State of Nevada, for the following re				,
(SEE A	DDENDUM)			
		,		
		·		······································
		DENIED		
THEREFORE the protestant requests that	the application be		ject to prior rights, etc., as the	case may be)
and that an order be entered for such relief as	the State Engineer	r deems just and	proper.	
	Signed 1	Taw 4	Slenama	
•			protestant n Board Chair:	man
	7.0	Printed or typ	ed name, if agent	
	,		r P.O. Box No.	
	Pahr	city, State a	id Zip Code Ne.	
	,			
Subscribed and sworn to before me this	day of	une	1990	
Dependent and saving to octors in community	7		2 . 0	
	Ini	Note to	owland	
•	State of	<del></del>	<del></del>	
	County of		ry Public-State Of Neveda COUNTY OF NYE	- -
			RIS M: ROWLAND y Commission Expires April 23, 1994	

\$10 FILING FEE MUST ACCOMPANY PROTEST. PROTEST MUST BE FILED IN DUPLICATE.

ALL COPIES MUST CONTAIN ORIGINAL SIGNATURE.

154 (Revised 6-10)

# "ADDENDUM" THE UNINCORPORATED TOWN OF PAHRUMP PROTEST THE AFOREMENTIONED APPLICATION FOR THE FOLLOWING REASONS AND ON THE FOLLOWING GROUNDS. TO WIT:

- 1. This Application is one of 146 applications filed by the Las Vegas Valley Water District seeking a combined appropriation of some 864,195 acre feet of ground and surface water primarily for municipal use in Clark County. Diversion and export of such a quantity of water will deprive the area of origin of the water needed to protect and enhance its environment and economic well being, and the diversion will unnecessarily destroy environmental, ecological, scenic and recreational values that the State holds in trust for all its citizens.
- 2. The granting or approving of the subject Application in the absence of comprehensive planning, including but not limited to environmental impact considerations, cost considerations, socioeconomic impact considerations, and a water resource plan (such as is required by the Public Service Commission of private purveyors of water) for the Las Vegas Valley Water District Service area is detrimental to the public welfare in interest.
- 3. The approval of the subject application will sanction and encourage the willful waste of water that has been allowed, if not encouraged, by the Las Vegas Valley Water District.
- 4. The subject Application seeks to develop and transport water resources on and across lands of the United States under the jurisdiction of the United States Department of Interior, Bureau of Land Management. This Application should be denied because the Las Vegas Valley Water District has not obtained the necessary legal interest (e.g., right-of-way) in the federal land such that the applicant may extract, develop and transport water resources from the proposed point of diversion to the proposed place of use.
- 5. The Application should be denied because it individually and comulatively with other applications of the water importation project will perpetuate and may increase the inefficient use of water in the Las Vegas Valley Water District service area and frustrate efforts at water demand management in the Las Vegas Valley Water District service area.
- 6. The Las Vegas Valley Water District lacks the financial capability for developing and transporting water under the subject permit which is a prerequisite to putting the water to beneficial use.
- 7. The above-referenced Application should be denied because it fails to include the statutory required:
  - (a) Description of the place of use;
  - (b) Description of the proposed works;
  - (c) The estimated costs of such works; and
  - (d) The estimated time required to put the subject water to beneficial use.
- 8. The Application cannot be granted because the applicant has failed to provide information to enable the State Engineet to safeguard the public interest properly. The adverse effects of this Application and related applications associated with the proposed water appropriation and transportation project (largest appropriation of ground water in the history of the State of Nevada) cannot properly be evaluated without an in-

dependent, formal and publicly-reviewable assessment of:

- (a) cumulative impacts of the proposed extraction;
- (b) mitigation measures that will reduct the impacts of the proposed extraction;
- (b) alternatives to the proposed extraction, including but not limited to, the alternatives of no extraction and aggressive implementation of all proven and cost-effective water demand management strategies.
- 9. The subject Application should be denied because the population projections upon which the water demand projections are based are unrealistic and ignore numerous constraints to infrastructure and services, degraded air quality, etc.
- 10. The granting of approval of the above-referenced Application would be detrimental to the public interest and not made in good faith since it would allow the Las Vegas Valley Water District to lock up vital water resources for possible use sometime in the distant future beyond current planning horizons.
- 11. The subject Application should be denied because current and developing trends in housing, landscaping, national plumbing fixture standards and demographic patterns all suggest that the simplistic water demand forecasts upon which the proposed transfers are based substantially overstate future water demand needs.
- 12. Inasmuch as a water extraction and transbasin conveyance project of this magnitude has never been considered by the State Engineer, it is therefore impossible to anticipate all potential adverse affects without further information and study. Accordingly, the protestant reserves the right to amend the subject protest to include such issues as they may develop as a result of further information and study.
- 13. We, the Town of Pahrump know first hand the economic hardship caused by over appropriation of water. Currently the growth of the Pahrump Valley is threatened because of technical over allocation of water. If the Las Vegas Valley Water District is allowed to obtain all remaining available water rights in the various water basins as they have requested, then all these areas will be growth stunted at their current levels. We protect the acquisitions that the Las Vegas Valley Water District has requested. The current request would destroy the economic and growth potential of each basin affected.
- 14. The undersigned additionally incorporates by reference as though fully set forth herein and adopts as its own, each and every other protest to the subject Application filed pursuant to NSR 533.365.